je Kining Immal,

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 1816.-Vol. XL.

LONDON, SATURDAY, JUNE 11, 1870.

(SUPPLEMENT) STAMPED ... SIXPENCE. UNSTAMPED... FIVEPENCE.

MR. JAMES CROFTS, STOCK AND SHAREBROKER,
No. 1, FINCH LANE, CORNHILL.

(ESTABLISHED 1842.)

HOLDERS of mining shares DIFPICULT OF SALE in the open market may find purchasers for the same through Mr. CROFTS' agency. Also parties requiring advice how to act in the disposal or abandonment of doubtful mining stocks may profitably avail of Mr. CROFTS' long experience on the market in all cases of doubt or difficulty, legal or otherwise.

A further rise has taken place this week in tin, making the price of black tin from £55 to £99 per ton. Mr. CROFTS recommends for immediate purchase GREAT ROYALTON and ROGHE CONSOLS (Tin) shares. At the latter mine large quantities of rich tiustuff are being laid open, and a valuable mine developed. The agent's report will be found on p. 491 of this Journal.

Every description of shares BOUGHT and SOLD.

Bankers: Metropolitan Bank.

Bankers: Metropolitan Bank.

MR. W. H. BUMPUS, STOCK AND SHAREDEALER,

following SHARES, free of commission:—
10 Assheton, £7%.
10 Argio-Austral, 188 6d.
29 Australian Unit, £3%.
25 Angio-Brzzil, 29. 6d.
26 Brynpostig, 228. 6d.
25 Bronfloyd Unit, £3%.
25 Caldbeck Fells, 29s.
26 Calegynon, £2%.
29 Caegynon, £2%.
20 Caegynon, £2%.
20 Darake Walls, 36. 8d.
31 Don Pedro, £216 3 pin
65 Eclipse.
6 Est Lovel, £34%.

East New Lovell. 25 Prince of Water, 17204 . H. B. transacts business in every description of shares at the be es, and free of commission. Bankers: The Metropolitan Bank (Limited), Cornhill, E.C.

M B. WILLIAM WARD, JOHN RISLEY, (SWORN) STOCK AND SHAREBROKER, 48, THREADNEEDLE STREET, LONDON, E.C. Bankers: London and Westminster, Lothbury.

MR. Y. CHRISTIAN, STOCK AND SHAREDEALER, 11, ROYAL EXCHANGE, E.C. Bankers: Bank of England.

M B. T. A. MUNDY, STOCK AND SHAREDEALER, 38, BISHOPSGATE STREET WITHIN, E.C. Bankers: City Bank.

M. B. JOHN MOSS, STOCK AND SHAREDEALER, ST. MICHAEL'S CHAMBERS, 47, CORNHILL, E.C.
Bankers: City Bank, Finch-lane, E.C.

M. C. A. POWELL, BRITISH AND FOREIGN STOCK AND SHAREDEALER, No. 1, PINNER'S COURT, OLD BROAD STREET, LONDON, E.C.

Bankers: City Bank, Finch-lane.

MR. THOMAS ROSEWARNE, SHAREDEALER, SI, OLD BROAD STREET, LONDON, E.C.
T. R. has BUSINESS in all the leading mines, and may be consulted from Ten to Four o'clock.

Ten to Four o'clock.

Money advanced to any extent on good mining shares.

Bankers: Bank of England.

WALTER TREGELLAS, 122, BISHOPSGATE STREET WITHIN, LONDON, E.C., DEALS in all descriptions of ENGLISH and FOREIGN SECURITIES, either for immediate cash or the fortnightly settlement.

settlement.

Recommends the purchase of shares in the VAN MINE, undoubtedly the richest lead mine, and the safest investment known.

W. T. has business in Carn Brea shares, and pays particular attention to the Brazilian and Californian Gold Mine shares. From his long residence in the Brazilis he is able to afford full information as to the prospects of the gold mines

Twenty-five Years' Experience.

Twenty-five Years' Experience.

M R. F. W. MANSELL, STOCK AND SHAREDEALER,
1. PINNER'S COURT, OLD BROAD STREET, LONDON, E.C.

FOR SALE:—
150 Anglo-Brazil...98.6d.
15 Assheton, £1½.
25 Australian Uni., £3.
26 Bronfloyd, £3½.
26 Bwelch Consols, £3½.
16 Bronfloyd, £3½.
27 Frontino, 198.
16 Gran Camborne, 248.
16 Carn Camborne, 248.
16 Grat Rock, £5.
16 Great Rock, £5.
17 Gwelle, £484.
18 UYSER of 20 Marke Valley, £644; 20 Herodsfoot, £41½; 35 South Condurrow, £3; 30 Tankerville, £1846.
18 YER of 20 Marke Valley, £644; 20 Herodsfoot, £41½; 35 South Condurrow, £3; 30 Tankerville, £1846.

Bally Elic of 20 Marke Valley, £644; 20 Herodsfoot, £41½; 35 South Condurrow, £3; 30 Tankerville, £1846.

to avoid.

Daily Price List of British and Foreign mines published every evening, and forwarded to correspondents (free).

Bankers: London Joint-Stock Bank.

R. J. B. HAWKES, 2, CROWN COURT, THREADNEEDLE
5 Bhydtallog, 2:76.

5 Rossa Grande, 16s. 9d

60 Rossa Grande, 16s. 9d

10 West-Seton, 2126.

20 Wh. Trelawny, 2s. 3d.

20 West-Pant-y-Go, 19s.

22 Metropolitan Public Carriage.

M. R. GEORGE BUDGE, STOCK AND SHAREDEALER,
No.4, ROYAL EXCHANGE BUILDINGS, LONDON, E.C. (Established
29 Polbreen, £4½; 100 West Pant-y-Go, 19s.; 50 East New Lovell, 13s.; 100
Bwadrain Consols; 30 Prince of Wales, 17a, 3d.; 2 Minera, £62½; 100 Great
Caradon, 18s. 9d.; 70 West Drake Walls, 3s.; 100 East Chiverton; 35 Van Consols, £4½; 90 Wheal Ida, 6s.; 20 Wheal Great Higher Street South Tolgus; 100
Anglo-Brasilian, 8s. 6d.; 200 Worthing, 4s.
Mr. Budge advises investors to secure an interest in Bwadrain Consols. He
begat to state that he does not know another mine making equal returns, and
laying open such reserves, or so favourably situated, the shares of which are
selling at anything like the price. Sampling for May 30 tons of lead ore.

TANKERVILLE, WEST TANKERVILLE,
AND OTHER WELSH LEAD MINES.
EAST WHEAL LOVELL, AND OTHER CORNISH MINES.

IMPORTANT TO SHAREHOLDERS AND OTHERS. PETER WATSON'S "WEEKLY MINING CIRCULAR AND SHARE LIST—SYNOPSIS OF CORNISH AND DEVON MINES," &c., of Friday, June 10. No. 586, price 6d, each copy, forwarded on application, contains information on the following mines:—

the following mines:

Tankerville.
West Tankerville.
Great Rock.
Great Rock.
Minera.
East Darren.
With Information and Statistics on the Tin Trade, Mine Dividends in May, &c.

LONDON DAILY RECORD STOCK AND SHARE LIST. Published every evening at 5 o'clock. Forwarded by same night's mail to subscribers. Entered at Stationers' Hall, July, 1866.

Contains the latest closing prices of any share-list published; showing the rise and fall in railways, banks, foreign stocks, colonial securities, American securities, foreign railways; telegraphic, insurance, steamship, and miscellaneous shares; Cornish and Welsh mines, foreign gold mines, &c.

With remarks on the daily operations, and advice as to purchases or sales.

Annual subscription, £11s.; by post, £22s.; monthly subscription by post, 4s.; single copy, 1d.; by post, 2d. Published by P. Watson, Stock and Sharedealer, 79, Old Broad-street. London, E.C.

M R. E D W A R D C O O K E,
STOCK AND MINING SHAREDEALER, 76, OLD BROAD STREET
E. C. having been underground at Tankerville and West Tankerville Mines
during the past few days will feel much pleasure in affording information relative to them, either by post or on personal application.

Bankers: Alliance Bank.

MR. JAMES STOCKER, STOCK AND SHAREDEALER, 31, THREADNEEDLE STREET (and Mining Exchauge), LONDON, E.C. Bankers: London and Westminster, Lothbury.

W . H . C U E No. 42, CORNHILL, LONDON, E.C. E Daily price-list on application.

Daily price-list on application.

MR. HENRY MANSELL, STOCK AND SHAREDEALER,
1, PINNER'S COURT, OLD BROAD STREET, LONDON, has FOR
SALE, at net prices, for cash, the FOLLOWING SHARES,
30 Agar, £2 13s. 9d.
106 Excelsion.
20 Tankerville, £18 15s.
21 Excelsion.
20 Tankerville, £18 15s.
22 Excelsion.
23 Autralian Uni., £3.
24 Autralian Uni., £3.
25 Tankerville, £48 15s.
25 Evel Consols.
26 Great Vor., £11 12s 6d.
27 Example Consols.
28 Mark Valley, £7 3s. 9
29 Mark Valley, £7 3s. 9
20 Mark Valley, £7 3s. 9
20 Excelsion, £4 17s.
20 Excelsion, £4 17s.
20 Excelsion, £4 17s.
20 Excelsion, £4 17s.
21 Example Consols.
25 Creat Vor., £11 12s.
26 Creat Vor., £11 12s.
27 Example Consols.
28 Mark Valley, £7 3s. 9
29 Mark Valley, £7 3s. 9
20 Mark Valley, £7 3s. 9
20 Excelsion, West Jewell.
20 Chiv. Moor, £4 17s. 6d.
20 Chiv. Moor, £4 17s. 6d.
20 Chiv. Lyalley, £3 13s. 9
20 Set Esgair Lie.
25 Consolos.
26 Consolos.
27 Exell., £1 Errar, £4 15s.
28 Consolos.
29 Consolos.
29 Consolos.
29 Consolos.
20 Consolos.
2

SILK AND CO., STOCK AND SHARE BROKERS, CHIEF OFFICES: 32, REGENT STREET, W. CITY OFFICES: 36, MARK LANE, E.C. We are prepared to negociate the Purchase or Sale of Stocks and Shares in Consols, Foreign Bonds, Railways, Banks, Insurance, Gas, and other Companies. BUSINESS of every description in Mining Shares at net prices for cash or

CARDIGAN BAY CONSOLS (Lead).—A safe and permanent investment.

CARDIGAN BAY CONSOLS (Lead).—Lode improving in the shaft; every foot they sink roducing 3 to 4 tons per fathom for the length of shaft.

Investors should consult us before embarking into Welsh properties.

FRANK LIMMER, Secretary.

MR. H. WADDINGTON, 48, THREADNEEDLE STREET,
FOR SALE:—£500 Debenture Bonds on the Chontales Mine, bearing 12 per
cent. interest; 50 East Carn Brea shares, at 3a. each; 80 Great South Tolgus,
2a. 6d. each; 15 Wheal Uny shares, £3; 5 East Lovell, £33%; 1 New Seton,
£35; 35 Plynlimmon, £2 11s. 36; 35 Chontales, 35s. each; 20 Great Retailack,
12a. 6d.; 84 Harewood Consols, 7a. 6d.

12s. 6d.; 84 Harewood Consols, 7s. 6d.

ROBEAN AND CO., STOCK AND SHAREDEALERS,
BRITISH and FOREIGN STOCK, SHARE, and MINING OFFICES,
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Telegraphs, Railways, Insurance, Banks, Canals, Hotels, Mines (home and
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Our long experience has taught us to deal with caution. We act accordingly.
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in the Terras Tin Company (Limited) and the Aberdaunant Lead Mining Company (Limited). The former, in Cornwall, will rise to as many pounds as now
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Prospectus of the Terras Tin may be had on application as above. See Terras
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The following shares are now on hand FOR SALE, for net cash, at the prices

STrumpet (ex div.),
24 10s.

10 Bronfloyd, £3 5s.
25 Cashwell, £3.
30 Drake Walls, £1 8s 6d.
5 E. Caradon, £4 13s 9d.
1 Dolcoath, £133 10s.
5 Cook's Kitch., £20 10s.
30 Great Vor, £10 10s.
30 Herodsfoot, £42.
50 Holmbush and Kelly
Bray, 10s.
10 Marke Valley, £7 26.
10 Great Valley, £7 26.
10 Rosewall Hill and 20 Great Retaliack, 15s.
10 Hombush and Kelly
Bray, 10s.
10 Marke Valley, £7 26.
10 Escelsior,
10 Rosewall Hills 3d.
2 So. Frances, £17 5s.
2 So. Frances, £17 5s.
3 Sweetland Creek, £4/5.
5 And 4 Great Winchester-street-buildings, London, E.D.

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Capital £10,000, fully subscribed.
LOANS GRANTED upon approved STOCKS and SHARES, at moderate rates of interest.

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"To an investor seeking the employment of a small amount of capital in Welsh mining, the shares of the CeIn Consols Mining Company (Limited), and fully paid, present a favourable opportunity. The working of the mine is under very able management, the directors are business men, whilst the present propriety is eminently good. The mine itself is in the limestone formation, surrounded by several of the richest mines ever discovered in the Principality, and the present produce is equal to anything hitherto found in these mines at a similar depth. The appearances and prospects of the company are now such as to warrant this public recommendation of the shares to those, who speculate in mining."

Business operations in Mining Shares effected at close market rates.

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Mr. THOMPSON recommends the purchase of New Central Snailbeach shares, as this mine will become the most valuable property in the district; also of LLANIDLOES WHEAL VAN.

Free on application a few remarks on "Mining in the Llanidloes (Van) district," also on "The Science of Investments."

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50 Agar, £2%.
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50 Van Consols, £4%.
50 New Lovell, £2%.
50 New

J A M E S S T R I P P,
Negotiates the Purchase and Sale of first-class Mining Property, and Deals in
Marketable Mining Shares for money, account, or time on, at close quotations,
free of commission. Tree of commission.

Money advanced, to any amount, on approved Mining Shares, upon liberal

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MINING SHARE BROKERS.
Have the BEST and LATEST INFORMATION on all the LEAD MINES of
WALES and the NORTHOF ENGLAND, and on all AMERICAN MINES, and
are in a position to transact business in most of them at closest market prices.
Messrs. Liscombe and Co. issue monthly the "Liverpool Mining Circular,"
containing special information on all the leading Welsh Mines, which can be
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Having had Ten Years experience in the Mines, and Twelve Years on the
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MINING AGENT, ENGINEER, AND SURVEYOR.
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or private shareholders.
For terms, apply to Capt. Absalom Francis, as above.

M. R. EDWARD BREWIS, STOCK AND SHAREDEALMS.

No. 24, Old BIGOD STREET, LONDON, E.G.

Business transacted for prompt cash, or if preferred for accounts certified of tin, lead, copper, gold, and silver mining shares at data residence of tin, lead, copper, gold, and silver mining shares at data residence of the lead of

The Piel Bematite Iron Company

To be incorporated under the Limited Liability Act.

CAPITAL £100,000, IN 4000 SHARES OF £25 EACH

(With power to increase to £150,000 if necessary.)

A deposit of £5 per share to be paid on allotment. Subsequent calls at intervals of not less than two months, to the extent of seven-tenths of the entire capital—the remaining portion to form a reserve.

DIRECTORS.

DIRECTORS.

The Chevalier HARRY CLENCH, K.G.S., K.S.I., K.G.C., &c., &c., Norwich.
Lieut. Col. H. RIGG, Cross Rigg Hall, Penrith.
FRANCIS PARKER, Esq., Acorn Bank, Penrith.
JOHN BEATSON, Esq., Iron Merchant, Sheffield.
E. TALBOT, Esq.—MANAGING DIRECTOR.
BANKERS—THE LANCASTER BANKING COMPANY.

SOLICITORS—LAWRENCE HOLDEN, Esq., Lancaster.
Messrs, HANCOCK, SAUNDERS, AND HAWKSFORD, 36, Carey-steet, Lincoln's Inn, London.
AUDITOR—H. C. BELOE, Esq., Liverpool.
SHAREBOKERS.
Messrs, H. BAZETT JONES AND SONS, Preston.
Messrs, WOLFENDEN AND GELL, Corporation-street, Manchester.
Messrs, WOLFENDEN AND GELL, Corporation-street, Manchester.
SECRETARY AND ACCOUNTANT—MARDON THOMAS, Esq.

The object in establishing this company is for the purpose of erecting furmaces and smelting the richer ores of Ireland in combination with the hematite
ores of the Furness district. The annual produce of the latter cannot be less
than 900,000 tons per annum, a large portion of which is sent out of the district.
Instead of being consumed therein, which can now be done with advantage and
the Furness Railway Company, whose main line passes the intended site,
have kindly intimated their wish to render all possible assistance to the pro-

instead of being consumed therein, which can now be done with advantage and profit.

A site for the works has been selected in the vicinity of Piel (adjacent to the iron ore pits, and near to the large establishment of the Barrow Hematite Steel (Company), which offers every facility for the successful development of the enterprise. The close proximity of the shipping port and extensive docks of Barrow, together with the harbour of Piel, will enable pig-iron to be dispatched, and the irish ores to be received, with advantage to the concern.

Provision will be made in the Articles of Association by which mining property in the district, and other suitable localities, may be worked by the company. Leases of hematite property, embracing some bundreds of acres, in the Furness and other districts, are now under consideration, with a view to their being transferred to this company on advantageous terms.

A considerable portion of the capital has already been subscribed, and arrangements have been made with a gentleman (who will act as managing director), possessing long and valuable experience, by which every security will be afforded that the capital will be carfully and judiciously expended, and the embsequent working operations be conducted with caution and economy.

The company will be duly incorporated under the Limited Liability Act, by which every shareholder is responsible only for the amount of his shares.

It is proposed to place the capital at £100,000, in shares of £100 each; to call up (say) £70,000 (in periodical payments, as may be required), and allow the remainder to form a reserve capital.

The cost of erection of three modern-built furnaces, with all requisite appendages, purchase of land, &c., will be £30,000, thus leaving of the called-up capital £30,000 as a working fund.

have kindly intimated their wish to render all possible assistance to the projected company.

The market for bematite pig-iron is now on the advance, and as it is the only class of iron employed in the Bessemer system, it is fully evident that a constant demand must exist, and continue to increase, for there can be no doubt, now that the Bessemer royalty has terminated, a great impetus will be given to this special branch of manufacture; its future requirements, therefore, will be very considerable, and as the production of hematite pig-iron must necessarily be restricted, it will be seen that a good and permanent prospect of success awaits this important section of the iron trade.

Applications for shares will also be received by the solicitors of the company, LAWBENGE HOLDEN, Eaq., Laucaster; and Messra. HANCOCK, SAUNDERS, and HAWKSPORD, 36, Carey-street, Lincoln's Inn, London, from whom prospectuses can be obtained.

FORM OF APPLICATION FOR SHARES.

FORM OF APPLICATION FOR SHARES.

FORM OF APPLICATION FOR SHARES.

To the directors of the Piel Hematite Iron Company (Limited).

GENTLEMEN,—I request that you will allot me shares in the above company, and on receipt of notice of such allotment, I will pay to the bankers of the company \$5\$ per share as deposit; and I undertake to pay any future calls as they may become due. I further request that you will place my name on the Register of Members for the shares so allotted.

I am, Gentlemen,

Name.

Residence.

Occupation

ISSUE OF UNALLOTTED SHARES.

South St. Just Tin Mining Company (LIMITED).

Incorporated under the Companies Acts, 1862 and 1867.

CAPITAL £10,000, IN 5000 SHARES OF £2 EACH TO BE FULLY PAID-UP. No further liability.

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WILLIAM FREDERICK TRITTON, Esq., 20, Nicholas-lane, E.C. (East India Merchant).
Col. PAGET, Farnham, Surrey.
GEORGE BURSLEM, Esq., Whitehall Yard, S.W.

BANKERS-LONDON AND SOUTH-WESTERN BANK, Lombard-street, E.C., and Branches. SOLICITOR-ROBERT WARD STACPOOLE, Esq., Pinners' Hall, Old Broad-street.

LOCAL PURSER-WILLIAM ANGWIN, Esq., St. Just, Cornwall, SECRETARY (pro tem.)—Mr. F. W. GRANT.

OFFICES,-225, GRESHAM HOUSE, OLD BROAD STREET, LONDON, E.C.

This company is established for purchasing the setts of, and machinery on, a mineral property situated in St. Just, Cornwall, and working a series of valuable tin iodes in a district long known and celebrated as one of the richest in the world, more especially for high quality tin ores.

The returns and profits from the mines in this district are so great as to almost surpass belief. Their position in the Dividend List is a sufficient guarantee for the present, and the prospects of the mines as they are being opened out warrant the assumption of a long-continued course of prosperity for the fature.

The setts are very extensive, and have been granted at the unusually low covariation of 1:24th for the term of 21 years, on the mining conditions that for than an experiment of the mining conditions are represented as the unusually low covariation of the property, and have been granted at the unusually low covariation of the property of the mining conditions are represented as the unusually low covariation of the property of the mining conditions are represented as the unusually low covariation of the property and have been granted at the unusually low covariation of the property of the mining conditions are represented as the unusually low covariation of the property and have been granted at the unusually low covariation of the property of the mining conditions are represented as the unusually low covariation of the property and have been granted at the unusually low covariation of the property of the mining conditions are represented as the unusually low covariation of the term of 21 years, on the mining conditions are represented as the unusually low covariation of the covariation cannot be surpassed, being in beautiful covariation of the mining conditions are represented as the unusually low covariation of the property and have been granted at the unusually low covariation of the c

King Arthur Silver-Lead Mine

CAPITAL £16,000, IN SHARES OF £1 EACH.

Deposit on application 5s., on allotment 5s., and the remainder as required. BANKERS—THE ALLIANCE BANK (Limited), Bartholomew-lane, London, E.C.
THE EAST CORNWALL BANK, Bodmin, Cornwall, and Branches. SECRETARY-Mr. J. H. TILLY, 1, Circus-place, Finsbury, London.

The latest intelligence received from the manager, under date of the 1st June, states that the lode now worked upon has greatly improved, producing over 1 ton of silver-lead per fathom, in a solid state. The getting of this ore has been let at £6 per fathom, thus leaving a profit of £10 per fathom on the price of £16 5s. per ton obtained at Swansea. It is intended forthwith to extend the workings, so as largely to increase the returns of ore.

MINE (LIMITED). ARTHUR SILVER-LEAD

Notice is hereby given that the LIST OF APPLICATIONS FOR SHARES in the above company will be CLOSED on TUESDAY next, the 14th instant.—1, Circus-place, Finsbury, London.

J. H. TILLY, Secretary.

IRON AND STEEL.—The invention of Mr. CHARLES W. SIEMENS, of Great George-street, consists of an improved mode of introducing the reduced ore into the open hearth of the melting furnace without, on the one hand, exposing the reduced ore to the oxidising action of the flame, and, on the other hand, without exposing the reducing hoppers, retorts, or muffles to the extreme heat of the smelting-furnace. For this purpose the inventor does not discharge the reduced ore directly into the melting furnace, as heretofore, but into a chamber or chambers arranged at the back or along the sides of the same, in which chamber or chambers a reducing atmosphere is maintained by an influx of reduction gases, although there exists an open communication between the chamber and the furnace. The bottom surface of the chamber inclines towards the hearth of the melting furnace upon which the metallic bath is prepared, in order to facilitate the introduction of the reduced ore into the bath, when required, by means of rabbles introduced through a a door or doors opposite the melting chamber. From this reduced ore chamber or chambers vertical or inclined hoppers or retorts rise upwards, into which the raw or calcined ore, together with the reducing and fluxing materials, are charged from above, by preference in a heated condition, and around these hoppers or retorts channels are provided, through which flame is made to circulate.

IRON AND STEEL.—The invention of Mr. J. PLAYER, Philadelphia, IRON AND STEEL.—The invention of Mr. CHARLES W. SIEMENS, of dampers or perforated plates, or perforated slabs. The front of the fire-place is east George-street, consists of an improved mode of introducing the reduced by a door perforated with a series of small holes.

IRON AND STEEL.—The invention of Mr. J. PLAYER, Philadelphia. .S.A., consists in first dividing the cast-fron in the condition in which it is t by the smelting operation into small pleese, flakes, grains, or powder by IRON AND STEEL.—Inclineance of the Lorentz of the L

ANNEALING POTS,-Mr. G. Rose, of Birmingham, makes in the the fire-place or furnace in which the combustion of the fuel takes of nearly vertical flues. These flues are of a curved figure, and to the annular flue or chamber in which the annealing pot is built deconduct the flame and products of combustion therety. Horiop into the annular flue or chamber in which the annealing pot is built ed, and conduct the flame and products of combustion thereto. Horizes are made in the brickwork of the annealing chamber or furnace, er ends opening into the curved or nearly vertical flues passing from ace. The outer ends of the borizontal flues are open to the atmosphere, ant of air passing through the said flues being regulated by sliding

TREATING HYDRO-CARBONS.—The object of the invention of Mesars. Scott and M'Ivon, of Addiswell, is to reduce the specific gravity, and otherwise improve the qualities of such oils. The oil to be treated in put into any ordinary still and distilled, and the vapour escaping therefrom during the distillation is passed through one or more heating vessels or chambers, and there exposed to the heat necessary to produce the change. The heating vessels or caposed to the heat necessary to produce the change. The heating results of chambers may be made of metal, clay, or any other material adapted to endur the heat, and they may be made of any desired form, or they may be constitute of a coll of metal pipes, or a series of tubes, such as are used for heating air for blast-furnaces. The vapour from the oil may also be passed into a vessel, and there made to come in contact with superheated steam of sufficient temperature to produce the change.

SPLITTING ROCKS, &c .- The invention of Messrs. H. L. Bolger of J. MERKIN, Dulwich, consists of a conical or taper serve formed on a rod mandrel of steel, fron, or other suitable material, and of a nut which is dided into two or more segments, also of a cylindrical step with a pivot hole erein for receiving the point of the conical serew or mandrel. The inventors troduced into the hole first the pivot step, and then the split nut, and into this ey insert the small and of the screwed mandrel. They turn the mandrel round a wrench, ratchet, or other means, and thus screw it into the split nut.

MOTIVE POWER.—It is proposed by Mr. H. Call, of Concord, U.S., to construct a tank or elstern, which is nearly filled with water. Submerged in this tank is a wheel, having buckets of a curved form. This wheel turns on an axis, which passes through the sides of the tank, the bearings being packed to render them water-tight. An air pipe is introduced into the tank, and descends to the bottom of the same, its end being curved and arranged immediately under the wheel in such a manner that the air passed through the pipe will be discharged into the bucket.

BORING MACHINERY.-Messrs. Spencer and Constendine, of Manchester, have patented some improved drilling machinery, which consists of a suitable frame provided for the purpose of supporting the drill spindle and holders, which is secured to and forms part of a long projecting horizontal boss or journal, in and through which the shaft driving the drill spindle is supported, and is caused to give a revolving motion to the drill spindle, through the medium of bevel gearing, the horizontal boss or journal being supported by means of a bearing that will allow of the horizontal journal and frame supporting the drill to be turned and placed at any angle that will adjust it to the work it is required to operate upon. The bearing supporting the horizontal journal is provided with a clip or jaw, formed at right angles, that will allow of its being secured at any height upon a vertical bar, the bottom end of which is provided with adjustable jaws, by which the tool is attached to the piece of work to be operated upon.

operated upon.

DIRECT-ACTING STEAM-ENGINES.—The invention of Mr. W. R. LAKE, of Sauthampton-buildings, consists in the arrangement of an adjustable slide in combination with the lever, which transmits the motion of the tappet rod to the slide valve of the auxiliarry cylinder (and which may be termed the valve lever) in such a manner that the time occupied by the motion of the slide valve can be accommodated to the velocity of the motion of the main piston or pistons, and that the main piston or pistons can be kept from slamming against the heads of their cylinders. Also in the arrangement of a friction clutch, in combination with the valve lever and adjustable slide, in such a manner that the lever is permitted to follow the motion of the tappet rod after the valve of the auxiliary cylinder has completed its stroke, and injury to the mechanism is prevened. Also in the arrangement of a double exhaust in the auxiliary cylinder, which controls the valve motion of the main steam cylinder in such a manner that the exhaust from either end of the cylinder can be easily regulated, and the valve motion can be rendered easy.

TIN ORES IN AMERICA.

[Towards setting in a trustworthy light the moot question of the abundance or non-abundance of tin in Missouri, and other parts of America, the Editor of the United States Ratiroad and Mining Register requested Dr. Genth to communicate the present amount of knowledge possessed by experts in the profession of chemical mineralogy, of which he is so distinguished a master, on that subject. He has been good enough to send the following, with permission to make it public.]

of chemical minoralogy, of which he is so distinguished a master, on that subject. He has been good enough to send the following, with permission to make it public.]

SIR,—It is surprising that whilst we produce an abundance of gold, silver, copper, iron, zinc, nickel, chrome, &c., in fact of almost every commercially important metal, and that, for their supply we are, or at least should be, entirely independent of other nations, tin has been met with only in exceedingly small quantities. Although this metal occurs at numerous places in this country, there exists at present not a single mine which ships any ore or sends any metal to market, and from our present knowledge the indications are not favourable that any of the localities, with the exception perhaps of one or two, will be able to supply this want and eventually produce larger quantities. We send every year millions of dollars to England and the East Indies, and the discovery of a valuable tin mine is, therefore, a great desideratum, and would be of much importance.

The principal, and in fact the only, ore from which the great bulk of tin is extracted is the natural binoxide of tin, or cassiterite. This mineral, if not in well-defined crystals, generally would attract but little attention, and frequently resembles various silicates, such as garnet, tourmaline, &c., so much so that only persons familiar with mineralogy would be able to distinguish between them. During the last twenty years I have received for examination, from all parts of this country, numerous specimens of rocks and minerals which were suspected to contain tin. Some of the results which I have been able to find having reference to the occurrence of the smetal.

In Maine, cassiterite occurs sparingly in small crystals at Paris, Hebron, and Greenwood. A short time ago it was discovered at Winslow, near Waterville College, where it is said to exist in greater abundance. Some specimens which I received somewhat resemble the ore from some of the European localities. My pieces consist of a

pears to occur in very thin seams, and it is doubtful whether it would pay for working.

In New Hampshire cassiterite has been found at Lyme, and somewhat more abundant, but not in workable quantities, at Jackson.

In Massachusetis, the microlite of Chesterfield contains 0.7 percent. of stannic acid, and a few crystals of cassiterite have been found at Chesterfield, Beverly, Norwich, and Goshen.

The columbites from Haddam and Middletown, Connecticut, contain from a mere trace to 0.6 per cent. of stannic acid; traces of it I have also found in the slightly auriferous pyrite of Tolland.

About 18 years ago I made numerous analyses of a variety of a greyish clay from Pennsylvania, all of which showed small quantities of tin, varying from traces to about 1 per cent. The purty who gave me the samples for examination was very sanguine to find a valuable tin mine in this State, but he died before he could accomplish his object. I never was able to learn the exact locality where this clay came from.

plish his object. I never was able to learn the exact locality where this clay came from.

Cassiterite is said to occur sparingly in talco-micacous slates in some of the Virginia gold mines; I have not been able to find any, although I washed the sands from numerous localities. As a very doubtful occurrence of metallic tin, I will mention that from Campbell county. Prof. Francis H. Smith, of the University of Virginia, sent me a piece in 1855, and to my observation that I considered it as artificial he replied that he had seen specimens with quartz attached, and that he thought it really a genuine natics tin. I have never since heard anything about this occurrence.

In North Carolina, I have found traces of tin in the wolfram of the Flowe Mine, in Mecklenburg county, and 0·13 per cent, in the schedilic

thing about this occurrence.

In North Carolina, I have found traces of tin in the wolfram of the Flowe Mine, in Mecklenburg county, and 0·13 per cent. in the scheelite from the Dutchmen vein of the Bangle Gold Mine, in Cabarras county. About two or three years ago a great tin excitement existed in Missouri, and a great deal of money has been lost in buying up worthless lands, which had been represented as containing valuable deposits of tin. The ores which were sent to me for examination at that time were of various kinds. A greenish epidotic rock contained no tin at all; a granite of medium grain, principally consisting of quarts and felspar, with very little mica, and which was sent as the principal tin ore, contained only a trace of tin, and the black sands from the neighbourhood contained a considerable quantity of magnetite, but also only a mere trace of tin. In neither was the tin in sufficient quantity or condition to be at all available. The occurrence of valuable tin ore in Missouri had been endorsed by the United States General Land Office on fraudulent specimens, which had been sent there as Missouri tin, and which probably came from Cornwall, England, After some correspondence about it, I received, through the kindness of Dr. A. B. Roessler, a very interesting rock from Madison county, Mo., which, in reality, contained more tin than any which I hadpriviously examined from there. The rock consisted of a mixture of quartz, felspar, some pyroxene, magnetite, and sphene. An analysis of the whole rock gave—

of the whole rock gave—

Silicic acid...
Titanic acid
Stannic acid
Oxide of iron
Oxide of manganese
Alumina
Magnesia
Lime 1.87 0.50 = 0.39 tin. Aikalies

Alkales

Testannic acid being isomorphous with titanic acid, probably substituted in the sphene a portion of it, making the percentage of stanniferous sphene in the rock about 5.7 per cent.

For my inability to find, in the minerals and rocks sent to me from

Missouri, tin in workable quantities, I have been puterly avails sorts of absurd assertions have been made about that tin-all sorts of absurd assertions have been made about that tinorkable quantities, I have been bitterly abused, and assertions have been made about that tin—for instance, that it required very great skill to find it, as it existed in the ore as an alloy of tin with iridium, &c.

In California tin ore has been found in 1860, and I have analysed an average sample from the Children with the control of the con

In California tin ore has been found in 1860, and I have analysed an average sample from the Cajalco Mine, San Bernardino county, in 1861, which yielded 22-15 per cent. of tin. The ore consisted of a grey quartz, mixed with a considerable quantity of hydrated oxides of iron and manganese, cassiterite, and minute quantities of black tourmaline. Prof. Whitney, in his Geological Survey of California, vol. i. p. 180, states that in 1860 and 1861 a great excitement existed on the subject of tin, and that claims were located on seams and streaks of dark hornblende, running irregularly through granite or alightly metamorphic rocks of the Temascal region. It does not appear that any of the old mines then taken up have been productive. A short time ago I received, through the kindness of Dr. A. R. Roessler and the Rev. Dr. R. E. Beadle, specimens from a recently discovered mine—the San Jacinto Mine, San Bernardino county—together with some metallic tin, smelted from the ore. The appearance of the ore is very peculiar. The quartzose ores resemble those from the Cajalco Mine, although they are less mixed with earthy

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trated t care necrially le lunders afurnac work we hearth, placed s smelter stacks r the sme eye. At plied by his pigs mineral. angular eyes, at leathern sists of

matter. Most of the specimens, however, consist of black tourma-line (not hornblende) of a very fine grain, or crypto-crystalline needles, with greyish-white quartz, and in small seams or patches disseminated through the matrix, the cassiterite in flesh-coloured very fine grains, through the matrix, the cassiterite in fiesh-coloured very fine grains, resembling some varieties of manganesian garnet; other specimens consist of tourmaline, with a more coarsely crystalline castierite of high lustre, and semi-transparent, with reddish-brown colour. In a preliminary examination of an average sample from my specimens I found 13.7 per cent. of tin. The ore is very easily concentrated by crushing and washing. In a sample thus concentrated (1), and in another sent from California (2), I found:—

The tin which was smelted from this ore contained:—Tin=99.78; iron=0.11; copper=0.11.

I am not informed whether or not the ore exists in sufficient quantities to warrant the exploitation of the mine.

Another specimen of tin ore has been found in the northern part of the State, at Weaverville; the vein seems not to have been found yet. The cassiterite from Jordan Creek, near Boonville, Idaho, I have not yet seen, and have no information with reference to its occurrence. Philadelphia, May 4.

F. A. GENTH.

-United States Railroad and Mining Register.

LEAD SMELTING IN MISSOURI (U.S.)

LEAD SMELTING IN MISSOURI (U.S.)

The Scotch hearth, so called, of this country differs but little from its British namesake. The method of smelting lead ore upon it, however, is a sort of compromise between the process used in Great Britain and that of the old American hearth. The preliminary roasting of the ores, peculiar to the former, is here dispensed with; and charcoal for fuel and a cold-blast have superseded the split wood and hot-air arrangement of the latter. As commonly built, a "furnace" consists of the hearth proper; the "stack" for carrying off the smoke and gas; and the means for producing a blast. The last may consist of either bellows or fan, worked by horse, water, or steam power. Each hearth, with its stack and tuyere (I particularise that, for it is a vital point, and is always the first thing blamed if anything goes wrong), constitutes an "eye;" and a furnace is said to "run so many eyes," meaning hearths. For convenience, and economy of building material, the eyes are usually set side by side. The parts of a hearth are the basin, apron, walls, and lend kettle. The basin and apron are of iron, cast in one piece: 16 in. square by I in, deep is a common size of basin. Wings are cast upon three sides of it to support the walls, and upon the fourth is the apron, inclined away from the basin at an angle of 15°, and furnished with a groove to serve as a conduit for the melted lead into the lead kettle. The latter is a hemispherical kettle (say) 15 in, in diameter, set groove to serve as a conduit for the melted lead into the lead kettle. The latter is a hemispherical kettle (say) 15 in, in diameter, set partly under the apron, in a low cast-iron cylinder—so arranged that a fire can be kept up beneath—for the purpose of retaining the lead in a melted state. Upon three sides of the basin, leaving the front open, a wall is built up of six blocks of cast-iron, $7 \times 7 \times 18$, or 20 in size. The lower back block has a deep groove in the middle of its under side, corresponding to a slight one in the edge of the basin. In the opening thus made the tuyere is placed. The side of the basin to the rear generally projects a couple of inches above the others, which raises the mouth of the tuyere so much above the level of the lead bath, when the basin is filled. In addition to this, the lead basin is usually set inclining slightly forwards, to prevent the overflow of usually set inclining slightly forwards, to prevent the overflow of

lead bath, when the basin is filled. In addition to this, the lead basin is usually set inclining slightly forwards, to prevent the overflow of lead to the rear.

In constructing an "eye" the stack or mantle is first built, and the hearth afterwards set up within it upon a foundation of its own. The stack may be 7 ft. by 12 ft. inside measurement; the convenience of the smelter governs this usually. It is entirely open on one long side (the front) for a height of 7 to 8 ft.; and then gradually contracting in section, is carried up to a height of 30 ft. or more. The material may be either stone, brick, or logs, plastered with clay. At the distance of about a foot from the middle of the back wall of this huge fire-place, at a convenient height for the workman, the basin is placed, firmly set in masonry. Provision is made for a solid support and bracing to the iron blocks forming the back and side walls of the hearth, and also for a flue to carry off the products of combustion from the fire under the lead kettle. The tuyere is introduced through an opening, left for the purpose, in the back wall of the stack. This important member, which may be considered the nerve of the eye, is usually of cast-iron, 2½ to 3 ft. long, tapering from 6 in. in diameter, or less, at the but, to 2½, 2, or 1½ in. at the nozzle, according to the pressure of the blast. It is highly important that the tuyere fit tightly (or be made tight with clay) in its groove in the back piece, that the escape of the blast backward may be prevented. The utmost penetration possible is required of the blast, in order to obtain a successful result in this process; and, with the means at disposal, the force of the blast annot be generally increased sufficiently piece, that the escape of the blast backward may be prevented. The utmost penetration possible is required of the blast, in order to obtain a successful result in this process; and, with the means at disposal, the force of the blast cannot be generally increased sufficiently to balance such a loss. The tuyere should be so set that the centre of the blast, when unobstructed, strikes the middle point of the front edge of the basin just at the inception of the lead conduit in the apron. Experience shows that, for a pressure of blast equal to \(\frac{1}{2}\)-in. column of quicksilver, the nozzle of the tuyere should not be less than \(\frac{1}{2}\) in. in diameter. The amount of air supplied to the hearth, in that case, is about 4 cubic feet per second. If this supply be much diminished, the working of the fire is greatly retarded, and its attendance rendered much more difficult. Other things being equal, the time occupied in smelting a certain amount of ore is governed directly by the amount of blast given, within certain limits—that is, with a strong blast the smelter runs a heavy fire; with a weak blast, a light or small fire, and makes lead accordingly. The size of the fire must be proportioned to the capacity of the blast to penetrate it thoroughly. As an example, to show the importance of this point, I give the result of an experiment made at the Grauby Co.'s furnace, in South-West Missouri. With two eyes, otherwise alike, and run by the same smelter, but one supplied with a \(\frac{1}{2}\)-in. tuyere, and the other with a \(\frac{1}{2}\)-in ditto, there was a difference of five hours in the respective times occupied in smelting a "tour" (3000 lbs.) of galena. The pressure in this case was one-half in mercury; the times, seven and twelve hours. As a rule, it would seem that the furnaces here work with too low a pressure. The blowing-machinery is not generally of a high grade, either as regards efficiency or economy. Until recently the bellows was the only means employed for furnishing blast. Two of these, pla

Before leaving this subject, it will be in place to remark that in the experiments made with the American hearth at Bleiberg the blast was introduced at three different points, instead of through a tuyere, and the other and the change was attended with very good results. The air pene-trated the mass more thoroughly and evenly, and the labour and care necessary on the part of the smelter were in consequence mate-rially lessened, while the percentage of lead obtained was increased. Junderstand that this plan is now being tried with the Scotch hearth at a furnace in South-East Missouri. There is no doubt, I think, that it will work well. A convenient arrangement for a furnace using the Scotch hearth and a source of the work well. A convenient arrangement for a furnace using the Scotch hearth, and one commonly met with, is as follows:—The stacks are placed side by side, having common partition walls, and giving each smelter a space of about 12 ft. wide: 5 or 6 ft. in front of the row of stacks runs a platform (say), 5 or 6 ft. wide, along which, behind the smelter, the ore is distributed; 3000 lbs., more or less, to each eye. At the smelter's left hand is a large box of charcoal, kept supplied by the stoker, and at his right are the moulds and room to pile his pigs of lead. Beyond the platform is the sluce-box, space for mineral, &c. In the rear of the stacks runs the "air-box, a rectangular wooden box, varying in size according to the number of eyes, and communicating with the several tuyeres by means of leathern pipes, called "boots." The fuel used upon the hearth consists of charcoal and "eye wood." The charcoal may be of either

hard or soft wood, as circumstances direct. From 7 to 15 bushels are used in smelting a "tour" of mineral; the amount varying with the skill of the smelter, the purity of the coe, quality of the coal, strength of blast, &c. It is essential that all fine stuff shall be screened out of the coal, and that a sharp look-out be kept for the burnt lumps of clay from the coaling-pit. Any of the hard woods will make eye-wood (soft wood is consumed too rapidly), provided it is straight and splits easily. It should be well dried before using. It is used in pieces ½ in, to 1 in, through, and about 14 in, long. One labourer will split for three eyes. The amount consumed per eye per tour is about one-fourteenth of a cord.

The amount of galena smelted as one day's work is called a "tour," and varies somewhat in different localities and for different grades of ore. From 2600 to 3200 lbs, of good mineral are given; where the smelter is paid by the pig, 2000 or 2100 lbs, of lead is considered a day's work. For the lower grades of ore, containing much foreign matter, and therefore slow to smelt, one-half to two-thirds of the above is allowed. At every hearth there is a smelter and his assistant, called "front hand" and "back hand."

The manipulation is as follows:—In commencing operations the basin is filled with lead, and it remains full throughout the campaign, or, in fact, until it becomes necessary, from any cause, to reverse it. Hono this lead floor, which later hecomes a lead 'hath."

The manipulation is as follows:—In commencing operations the basin is filled with lead, and it remains full throughout the campaign, or, in fact, until it becomes necessary, from any cause, to remove it. Upon this lead floor, which later becomes a lead "bath," a fire is bull to feye-wood and charcoal, and the blast partially turned on. After this is well under way, the "browse" (pronounced bruce), as it is termed (or residue from the last day's operations, consisting of the skimmings of the basin—i. e., oxide of lead, partially roasted galeda, incipient slag, &c.), is thrown on gradually, alternating with charges of fuel; and before this has entirely smelted away charging with fresh galena is commenced. The "browse" serves the purpose of supplying the oxygen compounds necessary to the initiation of the series of reactions which constitute the "smelting process." Fresh supplies of fuel and ore are added at short intervals, the fire being at the same time stirred up and brought forward upon the apron, where the white balls of slag are separated and thrown out; then, after a handful of eye-wood is placed before the tuyere to distribute the blast, shoveled back again. When the fire has reached its limit, marked by the ability of the blast to force its way through the mass of wasting mineral and burning charcoal, the charges are reduced somewhat, and the fire kept as near that limit as possible. This, then, is the routine:—Mass thrown forward with the poker, slag eliminated, eye-wood put in, mass thrown back front of the fire turned up to view, and slag separated, also thrown up, fresh fuel and ore added. In six or seven minutes the fire shows signs of collapsing at the backs, and the blast fails to force its way through the wester of the day of the seven of the supplies of the seven of the seven of the supplies of the s and ore added. In six or seven minutes the are shows signs of collapsing at the back, and the blast fails to force its way through the mass, coming out at the edges. The fire is again turned out, the foregoing separated, and so on ad infinitum. The lead trickles through into the basin, and as this is filled flows over, by the groove in the apron, into the lead kettle. From the accumulation here the pigs are moulded. are moulded.

—The Technologist (New York) March.

THE SLATE TRADE IN AMERICA.

THE SLATE TRADE IN AMERICA.

Although large deposits of slate have long been known to exist in the United States, but little has been done to develope them until within the past few years; yet they are now assuming pretty considerable dimensions. The slate region of Vermont consists of a bett of country lying about midway between the Hudson River on the west, and the foot-hills of the western slope of the Green Mountain range on the east. A strip of land, 20 miles long and 3 or 4 miles in width, having Poultney, Vermont, for its centre, would cover all the quarries of any value that have been opened. This belt lies, in fact, partly in Vermont and partly in New York. It is about 60 miles from Troy, and about 9 or 10 miles from the foot of Lake Champlain. The slate formation itself is much more extensive than this, extending the whole length of the slate. This deposit of argillaceous rock belongs to what is known in the records of geological history as the Devonian period, and, consequently, occupies a very low position in point of time in the scale of geological formations. This slate formation has an average strike (say) of north 15° east, with a very varying dip eastward, ranging from about 15° to 55°. The stratification of the beds is not, of course, uniform throughout. At some points it is very irregular, and, therefore, not adapted to the manufacture of good roofing-slate; at others it is remarkably even, and affords material in almost inexhaustible quantities for slate of the very best quality. There does not seem to be a very large admixture of foreign mineral matter accompanying the slate beds. Of those that are found, however, may be mentioned veins or threads of calcipar or carbonate of lime, quartz, and now and then traces of iron pyrites, either in an arborescent or crystalline form. The former cut across the planes of stratification of the slate rock, and are often so numerous as to render the slate beds wholly worthless, in so far as the manufacture of roofing-slate is concerned; but, fortunately, veins are only of local occurrence, and quite limited in extent, so that when, in the working of a quarry, they are encountered, they are considered an evil to be got rid of at a greater or less cost, rather than a permanent obstacle in the way of the further development of

than a permanent obstacle in the way of the further development of the property.

The number of quarries at present in operation in the Vermont slate district is about 100, which may be divided according to their geographical position into distinct groups. In the Middle Granville group there are about a dozen quarries now being worked, all, with one exception, making roofing slates. The predominant colours of the slates manufactured in this district are red, purple, green, and variegated. Considerable pyrites is found—more here, perhaps, than in any of the other districts. It is well worthy of mention that in this group are located the only quarries of red slate to be found in the country, if not in the world. The slates obtained from it are of the very best quality, being very smooth, fine textured, and unchangethe country, if not in the world. The slates obtained from it are of the very best quality, being very smooth, fine textured, and unchangeable in colour. They are used only for ornamental work, in connection with the purples and greens; and, on account of their scarcity, bear in the market nearly double the price of the ordinary coloured slates. The Jamesville and Hampton group is to the northward of that just mentioned, and likewise in Washington county, New York. The slates are here very irregular, both as regards colour and quality; mottled green, perhaps, predominates. As to texture, this group furnishes, upon the whole, a finer grained slate than the Middle Granville Quarries. The slate from this circle of quarries is shipped at Poultney, in Vermont, on the line of the Troy and Rutland Railroad. The Poultney group, which is the most extensive of all, is still further to the northward, and situated in the State of Vermont. There are here about 30 quarries being worked, and devoted for the most

ther to the northward, and situated in the State of Vermont. There are here about 30 quarries being worked, and devoted for the most part, with the exception of the Eagle Quarry, to the manufacture of roofing slates. From the quarries of this Poultney group the finest roofing slates in America is, perhaps, produced. The great body of them consists of fast-coloured purples and greens. The stock from which they are made is very fine grained; in fact, as good as any that the country. Afords. A large purples of these are made from that the country affords. A large number of slates are made from these quarries. They are sent to the market, in greater part, from Hydeville, about midway between Whitehall and Rutland, on the Rensselaer and Saratoga Railroad. This may be considered the chief group in importance, as it is the central one in position of all the quarries in the district. At Fairhaven, to the north-west of Poultney, there are about a dozen quarries, some producing roofing slates and some producing slabs; and to the eastward of Fairhaven are the Castleton Quarries, producing all slabs. Of the 30 quarries that make up the Poultney group there is but one in the hands of an incorpo-rated company, the rest being held by private owners; and, as an evidence of the value of the slate formation in this locality for roofing evidence of the value of the slate formation in this locality for roofing and other purposes, it may be remarked that some 20 of these quarries have been opened within the last three years, and nearly all of them are doing well. Among the Fairhaven quarries the Scotch Hill is the principal. This is in the hands of a Boston company. In the last, or Castleton division, are found, as the more prominent, the West Castleton, Cookville, and Billings quarries. It is the practice throughout the district that the slabs are worked by mill companies in many instances, not the owners of the quarries; they buy the stock in the rough from the quarrymen, and send it to market in the form of billiard bed; mantelpieces, and the like.

In the Vermont district quite a number of Welshmen are employed. They are very successful in their works, many of them having come

They are very successful in their works, many of them having come

into possession of quarries, which they carry on themselves, and generally with success, owing, perhaps, to the fact that they thoroughly understand the business. As yet very little machinery is employed in getting out the slate from the quarries, or in splitting it up into sizes suitable for roofing purposes, though some attempts in that line are at present being made. Machinery is very extensively employed in finishing it for mantelpieces and other purposes.

The immense deposits of slate in Pennsylvania are extensively worked. The largest and most northerly of these is that situated in Northampton and Lehigh counties. The great shipping points for this region are Slatington and Walnut Port. In these two counties, Northampton and Lehigh, there are some 300 companies engaged in working slate quarries. South of this is the Peach Bottom region, in Pennsylvania and Maryland. From these regions is supplied most of the slate that comes to tide water. Slates from this part of the country are of a firm texture, split readily under the chisel, and are dark-blue in colour. Another slate region exists in Brownville, Maine, some 40 miles north-west from Bangor. The slates obtained from these quarries are of a uniform black colour, hard and durable. These quarries labour under the disadvantage of being some 40 miles from railroad or shipping point. These slates do not usually come further west than Boston, on account of the great cost of transportation, &c. Several railroads are, however, in course of construction, which will give an outlet for this industry.

FOREIGN MINING AND METALLURGY.

The French iron trade shows continued firmness. In the Haute-Marne there is a very satisfactory state of affairs, and all articles may be said to be in good demand. The Champagne committee of forge-masters has held a meeting; no important decision was arrived at, but the meeting determined to pursue negociations with the Government to endeavour to secure a suppression of the system under which cannot a reclosed during the suppression of the system under which but the meeting determined to pursue negociations with the Government to endeavour to secure a suppression of the system under which canals are closed during the summer months. The meeting signed, besides, an application for a concession of a junction canal from the canal lateral to the Marne to the St. Denis canal. Satisfactory advices come to hand from the Moselle markets; producers of jug complain, however, of the dearness and scarcity of coke. Iron and white refining pig continue in very considerable demand; the forges receive a good number of orders, but some feebleness is remarked in the delivery of iron to Switzerland, where Beigian iron appears in competition. M. Labbé, of Gorcy, is understood to have concluded a contract for 700 tons of bolts for the Parts, Lyons, and Mediterranean Railway Company; the precise terms of the contract have not transpired. M. Ziane (director of the Providence Forges) and M. Lancelot (a banker at Monceau-sur-Sambre, Beigiam) are soliciting a concession of ironstone mines in the arrondisement of Briey; these applications compete with four others put forward by MM. Labbé, Perlot. Collas Freres, and Shoeffener-Siegers. The proprietors of the ironstone mines of Gorginion, in the commune of Ars-sur-Dornet, have abandoned the concession granted to them by a decree of Sept. 27, 1888. On the other hand, two concessions have just been granted. The first has been made to a representative of the house of MM. de Wendel and Co., of mines of hydroxided colitic ironstone, situated in the communes of Noutchef, Knutange, and Lommerange; this will be known as the Tillots concession. The second concession as heen granted to the Denain and Anzia Blast-Furnaces and Forges Company, and comprises mines of hydroxided colitic ironstone, situated in the communes of Knutange, Fontoy, Lommerange, and Neufchef; this will be known as the Tillots concession. The Conneil of Administration of the Bescen of France Railway Company has been authorised to solicit from the French Government permission to establ

Raropean railway aystem. MK. Laurent Felix Remy, Felix Destro, Homeser, and others have obtained a concession of mines of argentiferous lead and other interals, in the communes of Chabrignae, St. Bonnei la Rivière, and Lascaux; in the Corrèze.

There is not much change to report in the state of the Belgian coal markets, and no immediate modification in their condition appears probable. The demand is maintained for all good qualities, although several important houses hesitate to enter upon a renewal of contracts, hoping to obtain lower rates at a future period. It is a very general important houses hesitate to enter upon a renewal of contracts, hoping to obtain lower rates at a future period. It is a very general impression that the hopes of these firms will not be realised; stocks are much reduced, and in many cases have almost disappeared, while extractors are not likely to lower their pretensions. Coke is in more demand on French account than ever, notwithstanding the high price which it has attained. Coal has just been discovered in the neighbourhood of the southern extremity of the Cologne and Minden Railway; the bod is stated to be something over 8 ft. in thickness. The discovery was made by the Belgian Coal Soundings Company, which is about to make some soundings to the north work; it could scarcely be otherwise, since their production is admined that the commencement of 1871. There are complaints, however, that orders to be executed in the course of 1871 do not arrive very freely at present, although the numerous railway enterprises which have been projected can scarcely fall to assure a good future demand. The reduction in the price of steel rails is beginning to excite considerable attention in Belgium; it could scarcely be otherwise, since the Grenote of the contract of the course of the contract of the production of the production of the latter, considering works 30,000 tons of steel rails is 101, per ton, at the work in grent production of the latter, on a few seconds of the contract of the contrac

per ton, Paris conditions. The German copper markets present little variation; transactions are not very numerous, and are confined to the strict requirements of consumption. The tone of the tin markets has somewhat improved. At Rotterdam as much as 78 fls. has been made for Banca, while Billiton has brought 774 fts. The general tendency of the lead trade appears to be towards feebleness. At Breslau there have been some rather important transactions in zinc, but elsewhere there has not been very much doing in that article.

MINING IN NEVADA-ENGLISH CAPITAL IN WHITE PINE MINING IN NEVADA—ENGLISH CAPITAL IN WHITE PINE.—According to the White Pine News, April 20, Eberhardt and Anrora Mining Company is the title of the English company formed in London for the purpose of purchasing the mines named in the title. The capital stock is 300,000£, in 10£, shares, all of which has been subscribed. The price to be paid for the Eberhardt and Aurora South Mines is 300,000£, for about \$1,455,000\$, one-half in cash and the balance in shares—the latter to be retained until profits to the extent of 125,000£, have been made and are divisible. The property has been thoroughly examined by the company's engineer, Melville Atwood, and by Thomas Philpots, acting agent for a member of the company, both of woom left here on Monday for San Francisco, where their reports will be prepared and forwarded to London by Mr. Philpots. If these reports prove satisfactory to the subscribers (and we have every reason to believe they will), the capital will be immediately called up and the sale consummated—Engineering and Mining Journal.

GOLD MININGLIN NOVA SCOILA—The El Dorado Mine. Wine Har-

GOLD MINING IN NOVA SCOTIA.—The El Dorado Mine, Wine Har-bour, purchased last January by Messrs. Boak, Ross. Northup, Gisborne, and thers, proves to be a valuable investment. The new belt now being worked is thout 18 feet wide, one-third of which goes to the mill: 140 tons were crushed luring April, in two lots of 74 tons each, the surface lot yielding gold at the rate of 6½ dws. to the ton, and the next 11½ dws.—in all, 61 ozs. Large reefs of quarts, yielding from 5 to 10 dwts. of gold to the ton, constitute the chief value

of Australian mines, and we anticipate a similar result in Nova Scotia. At Isaac's Harbour, the Glaborne Mine employs a large number of hands. Two shafts, 20 ft. by 20 ft., are now being sunk in the belt, 300 ft. apart, the intervening ground having been proved, by various trial shafts, to be rich in gold. A first-class mill, to be driven by a 30-ft. diameter water-wheel, will be completed by Mesers. Hattle and McPherson (the contractors) next moath, by which time a considerable quantity of quarts will be ready for the stamps. Meanwhile small lots, about sufficient to cover the monthly expenditure, are conveyed to a neighbouring mill, the last lot, of 6 tons 13 cwts., crushed on the 3d instant, having yielded 28 ozs. 12 dwts. 21 grs. of fine gold.

IMPROVEMENTS IN SURVEYING INSTRUMENTS.

An improvement in instruments for mining and other surveying has been effected by Mr. WILLIAM LINTERN, mining engineer and surveyor of Pontypridd, South Wales, by which the true meridian is made the fixed base line of the map, or plan, instead of the magnetic meridian. It is well known that the declination of the latter meridian alters at the rate of about 1° in eight years, being at that rate moving towards the true meridian; and it is very obvious that, in any case where the magnetic meridian is treated as an invariable line, the consequence of its variability upon the correctness of all plans so made must, in the course of years, be serious; and as 20 years is but a small portion of the life of some collieries and mines, and as the plans of such properties are being made, and added to, over the long period of their existence, it is certain that the consequent accumulating error must be very large in the course of time from this

long period of their existence, it is certain that the consequent accumulating error must be very large in the course of time from this cause. Nor is it practicable, with any reasonable expenditure of labour, to make the correction by computation, even when professedly attempted, for the number of computations to be so made in any periodical survey would be so large that the probability is they would be, in the majority of cases, disregarded and passed over, as at present. The way Mr. Lintern effects the improvements is by having an adjusting limb, in the compass-box of the instrument, moving close upon the divided ring, to which the needle is ordinarily set. This adjusting limb is provided with a vernier, divided to minutes, and which is adjusted to the bottom plate of the dial-box, a small portion of which is divided to \(\frac{1}{2} \) for the purposes of this arrangement. This limb carries a zero line in prolongation of the zero of the vernier, and it is kept set to the proper number of degrees and minutes, representing the correct declination for the time being, and it counts from the ordinary zero of the instrument, and can be altered either quarterly or half-yearly, as may be determined upon, so that the an

presenting the correct declination for the time being, and it counts from the ordinary zero of the instrument, and can be altered either quarterly or half-yearly, as may be determined upon, so that the angle between this adjusting zero and the ordinary zero of the instrument is always regulated to measure the varying declination.

In surveying with this improved instrument, the needle will always be set to the adjusting vernier zero line, instead of to the ordinary zero of the instrument, and in this way the ordinary zero represents the true north, and all readings are then made in reference thereto, and are as easily effected as by the ordinary manner of working, it being, in fact, precisely the ordinary way of reading. If, then, the line placed upon the map represents the true north, the reading entered in the book will come right by placing the protractor on that line, as it is ordinarily placed on the magnetic line; and by continuing this process of working at the surveys the magnetic error is completely overcome and provided against. If, then, each map has a pair of columns drawn, in one of which is entered the date of each survey, and in the other the amount of magnetic declination to which the instrument has been set for the survey, the plan will give its own evidence as to how the corrections have been carried on, and it will be practicable to adjust the surveys for 50 years hence, so that they shall accord correctly with those made at the present time, although the aggregate of the adjustments in that period will probably be upwards of 6°.

Mr. Lintern also proposes an improvement in the construction of

Mr. Lintern also proposes an improvement in the construction of Protractors, which consists of a parallel frame of two side bars fixed to, and moving with, the vernier bar instead of the folding arms and pricker. In using this construction the different readings are not pricked off by marks in the paper, but the frame is set to the proper reading, and either one side or the other will be convenient for placing to it the set square, or the parallel ruler, whichever is used, and the line is then run off at once to its proper place, the instrument presenting a steady bar at the exact angle required from which to lay down the line, and the pricking the paper is thus avoided. The protractor is made with a groove on the face of the circular ring instead of the rack and pinion motion, and has the clamp and tangent adjusting screw, as the theodolite. This construction gives facilities for greater dispatch in working, combined with greater accuracy, and avoids the marking the paper usual with the other kinds. Mr. Lintern also proposes an improvement in the construction of

IMPROVED SAFETY-CAGE.—A simple and efficient form of safety apparatus for the prevention of accidents in coal and other mine shafts from the breakage of ropes and from over-winding has been invented by Messrs. DENTON and WHITAKER, of Leeds. It consists of claws, which are made to grip each side of the guide-rod by the use of a coiled spring. Whilst the cage is in motion with the rope sound the pull upon the spring prevents its action, but in case of breakage the spring is released, the claws take into the guide-rods, and the fall of the cage is arrested. The arrangement for preventing over-winding consists of a simple latch, held in position by a spring, and in case of overwinding the back end of the latch comes against a stop, and lets the ring connecting the rope with the short chains of the cage escape. The apparatus has been very favourably spoken of by practical men who have seen it in operation, and it is anticipated that its simplicity, and consequent cheapness, will ensure its very extensive adoption. very extensive adoption.

ROTARY STAMPS MILL.—A rotary pulverising and amalgamating quartz mill, which has been successfully worked in California and Newada for the past nine years, is at present being introduced by Messrs. Morey and Sperry, of New York. It costs nearly one-half Nevada for the past nine years, is at present being introduced by Measrs. Morex and Sperrey, of New York. It coats nearly one-half less when put up ready to run than the straight mill. It can be put up at the mine ready to run in three days, and, with good ore, will pay for itself while a straight mill is being erseted. It is built in the most substantial manner, and of the best material. Each mill is put running at the shop, so as to avoid all annoyance of bad fitting or lack of parts. These mills are cast in sections, so as to be easily transported. If the mine does not pay the mill can be taken down, and ported. If the mine does not pay the mill can be taken down, and removed without damage. The wearing parts are so arranged that they can be duplicated at any time. Each section is faced off, and \(\frac{1}{2} \) in of wood put between, thus avoiding the loosing of nuts and bolts, and the granulating and weakening effect produced by the jar. The weight of stamps is from 500 to 600 lbs. The shoes and the dies are made of the best white iron. The stamps revolve while being raised by the cam, consequently there is but a small amount of friction, and as they continue to revolve until they strike the die, both raised by the cam, consequently there is out a small amount of friction, and as they continue to revolve until they strike the die, both the shoes and dies are kept square on the face, doing more and better work than the straight mill. The stamps, dropping one after the other, force the pulp or rock around the mill, distributing it so that each stamp has an equal amount of rock. The speed of these mills is from 100 to 110 drops per minute. It has more screen surface than the ordinary mill, and is better protected, the rock being fed in at the bulk or coates. It does not come is contact with the screens until is from 100 to 110 drops per minute. It has more screen surface than the ordinary mill, and is better protected, the rock being fed in at the hub, or centre. It does not come in contact with the screens until the holy or centre. It does not come in contact with the screens until it is partially crushed. It is considered that a light stamp with a quick drop does the best work. Several improvements in detail made in this mill are considered to give it great advantage over the old style of mill. It is cast in sections, while the old mill had columns; the gear is taken from the top and put nearer the base, giving less vibration; it is made much heavier; the guide-boxes for stems are of oak; the wood packing between the sections to take off the jar; be-sides, many other little annoyances are obviated.

CORNISH PUMPING ENGINES .- The number of pumping-engines reported for April is 18. They have consumed 1221 tons of coal, and lifted 9.3 million tons of water 10 fms. high. The average duty of the whole is, therefore, 51,700,000 lbs., lifted 1 ft. high, by the consumption of 112 lbs. of coal. The following engines have exceeded

The Main, from New York, has brought \$25,000 in bar silver from south Aurora Mine, and \$5000 from the Eberhardt.

Meetings of Mining Companies.

CEFN CONSOLS LEAD MINING COMPANY.

CEFN CONSOLS LEAD MINING COMPANY.

The first general meeting of shareholders was held at the offices of the company, No. 31, Threadneedle-street, yesterday,
Dr. Collis Browne in the chair.

Mr. T. R. Comyn (the secretary) read the notice convening the meeting, which stated that as the first ordinary general meeting of the company must be held in August, when the balance-sheet will be presented to the shareholders, in compliance with section 91 of the Articles of Association, no accounts will be presented at this meeting, but a report of the state of the mine, &c., will be submitted.

The CHAIRMAN said it afforded him much pleasure to present to the shareholders a very satisfactory and explanatory report from their consulting engineer, Mr. Josiah Hitchins, which he would ask their secretary to read.

The report was as follows:—

special to the shardolds, in compliance with section 9.1 of one, but a report of the state of the mine, sh, will be smilled.

The charakas' and it is effood him much pleasure to proved to constituting engines, M. Coulds illication, which he would not be constituted to the characters of the state of the

they will realise expectations. In addition to the exploratory operations particularised there are others in hand which ought not to be left unnoticed, although so far unattended with success. At about 40 fms. to the west, and on the run of the No. 1 old workings, there has been a shaft cleared and sunk 8 fathoms, at which depth a level is driving on a promising branch (here called "joint"), which is carrying a little ore, and therefore more likely for not being far off from connection with a productive "lough." Still further west, and on the same run, another shaft has been sunk, being between 2 and 3 fms. deep, but which is now dormaut, and right, too, there being other places offering much greater inducements for trial. From the various operations carried on, as particularised, it is clear that much activity has been the rule, the company's money not having been paid away for nothing. At the surface, the work done is quickly particularised; there has been built a small office, room for materials, and powder-magazine, and there is a carpenters' working place, also saw-pit, the ground for all surface requirements having also been fenced off. Having now brought you acquainted with all done underground and above, and furnished you (as I hope it will be thought) with a sufficiently explanatory statement to enable you to come to a correct conclusion on the merits, prospects, and chances of this mine—in other words, the most probable issue that awaits it—there remains nothing more for me to say by fair play. I cannot, however, be silent before saying that the goo : chances of Cefu greatly preponderate in its proving a valuable mine—indeed, a rice prize, waring fuily justified in predicting with c-trainty such an event being clearly in view.—J. H. Hirrolins.

The CHAIRMAN said it would be seen by that report that there were five different points of operation, each of which presented most encouraging features. The large laminated and foliated leaf of the lead, as found in this mine, first attracted his attention, for he knew that it was impossible to form crystals without a large body of material to develope them. The moment he saw this peculiarly favourable formation he ex-

pressed a confident opinion that wherever such crystals were found there must be in connection an enormous body of metal. But, in addition to this, they had the fact before them that from the limited explorations made large quantities of galena had been raised. Its character was such that it required but little crushing, and was economically developed. There was everything to make them thoroughly attisfied with their enterprise, and there could be no doubt that with the energy, efficiency, and economy ensured by the arrangements completed, Cefa Consols would at no distant date prove an important and highly remnerative mine. (Hear, hear.) Although, as stated in the notice convening the meeting, the balance-sheet, showing the financial position of the company, would not be submitted until the ordinary general meeting in August, yet it would, no doubt, be eatisfactory to the shareholders to know that the funds were ample to meet all immediate requirements; all they wanted was time to complete the no-cessary preliminary operations, when they would be able to submit a most sails factory statement as to the condition and prospects of the mine. (Hear, hear.) Mr. T. E. W. Thomas directed attention to the fact that deposits of lead ore in the limestone formation were somewhat different to those in slate rock, inase in the former the ore was found in greater bulk, and not intermixed much as in the former the ore was found in greater bulk, and not intermixed with the component parts of the lode. The ore required little or no dressing, and was rendered merchantable at but little cost.

Alter some further discussion, upon the proposition of Mr. F. MAPLES, a condial vote of thanks was passed to the Chairman for the satisfactory information he had afforded. A similar vote was also passed to the directors and secretary. The meeting them separated.

The annual general meeting of shareholders was held at the offices of the company, No. 6, Queen-street-place, on Wednesday, Mr. Henry in the chair.

The reports and accounts were adopted, and the retiring directors and auditor were re-elected.

The report stated that the quantity of ores actually returned from the mines during the past campaign has been—Lead, 3408 tons, of the gross value of 30,6621, 12s. 4d.; calamine, 11,107 tons, 44,7711, 3s. 8d. =75,4331, 16s.; besides which there was some increase made in the stocks of calamine earths. After charging against this return the whole amount of costs in Italy and London (including not only the proper working costs, by a considerable amount of outlay incurred in various preparatory works), there remains a balance of expenditure, it may be interesting to state that the accounts of the zlue mines showed an excess of costs over returns of 46401, 8s. 5d.; whereas on those of the lead mines there was a profit of 6711, 18s. 4d.; reducing the amount to 59881, 10s. id. To this interest, discount, &c., are added, 14211, 10s. 6d.; expenses in England, saiaries, &c., 7341, 6s. 1d. =21551, 16s. 7d.; leas balance of exchange account, 5881, 16s. 4d. in 16s. 1d. 5d. 16s. 7d.; leas balance of exchange account, 5981, 16s. 4d. 4d. 16s. 1d. 6s. 7d.; leas balance of exchange account, 5981, 16s. 4d. in the accounts of this year, on account of costs incurred in the previous campaign. The actual loss, therefore, on the years 1868-9 is a little over 30004. The balance to the credit of the profit and loss account at the end of the previous year was 99041, 12s. 7d.; after deducting from which the above sum of 5165, 10s. 3d. and 421, 9s. paid for income tax, there remains a credit operation of the previous year was 99041 and 10s. therefore, on the years 1868-9 is a little over 30004. The balance to the credit of the previous hand in the same to be entitled to a preferential dividend of 10 per cent. per annum on the amount paid up per share, out of the first profits, and, in addition to su

LEAD MINING AS AN INVESTMENT.

LEAD MINING AS AN INVESTMENT.

Messrs. Liscombe and Co., who have had nearly twenty years' experience is mining in Cornwall and Wales, are now in a position to recommend to their citents and the public investments in Lead Mines in Wales, at once devote of risk, and yet which are certain of returning large and immediate profits great value of lead mining in Wales has long been known to the initiative for from the time of Sir Hugh Myddleton (who, from the great profits realised from this Welsh lead mines, was enabled to bring the New River to London to the present day, when the Right Honourable John Bright, M.P., the Right Honourable John Bright, M.P., the Right Honourable John Bright, M.P., the Right Honourable John Bright, W.P., the Right Honourable Mines of the late Mr. Coblen, M.P., realised their great fortunes out of their Montgomeryshire lead mines, Welsh mining has been the most successful and profitable of Brittah pure come to only, bowever, within the last three or four years that the public have come to only, bowever, within the last three or four years that the public have come to only, bowever, within the last three or four years that the public have come to only bowever, within the last three or four years that the public have come to only bowever, within the last three or four years that the public have come to over 30,000%, is now selling in the London market for upwards of a million sterling; and the statistics which Messre. Liscombe and Co. are prepared to supply show that upwards of two millions sterling profits have been realised from Welsh lead mines during the last eighteen mouths.

Among the most important of existing mining enterprises in Wales are the Aberdovey Lead Mines, and the Garaarge, shire Mines. Shares in the Aberdovey Lead Mines, which have and the Garaarge, shire Mines. Shares in the Aberdovey Lead Mines, which has a tended with a full plant of machiner; and machiner; and machiner; and machiner; and machiner; and machiners and machiners and machiners and machiners and machiners

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THE standard standard

year, he selling at over 50%—a result which Messrs. LISCOMBE confidently antici-pate.—For further information, apply to Messrs. LISCOMBE and Co., 37, South Castle-Street, Liverpool.

MINING IN WEST CORNWALL.

A correspondent writes that—It will no doubt be interesting to your readers to know the opinions of disinterested residents in West Corn-wall on such of the mines situated in the neighbourhood of Redruth wall on such of the mines situated in the neighbourhood of Redruth and Camborne as a visit of a few days would enable me to collect, PEDN-AN-DREA is looking well, and selling about 24 tons of tin monthly, which leaves a profit.

EAST CARN BERA has very much improved, the lode in the shaft presculing indications of becoming very rich for tin, now worth 20t, per fathom; indeed, better tin-stone of more kindly matrix is seldom met with. WHEAL UNY is again improving; may this go on until the share-holders derive the profits they so richly deserve.

WHEAL BASSET is making a good profit, and it is hoped will ere long wipe off the balance standing against the mine.

long wipe off the balance standing against the mine.

WEST BASSET is making a good profit on cost incurred on the mine.

SOUTH CONDURROW is getting into a fair way of working; the necessary works for conomically returning the tin are nearly finished. The profit on the four months' working will probably be 1000l.

TINGEOFT is a proved mine, whose resources few men now living

Will see exhausted.

COOK'S KITCHEN is a good mine, and lately much enhanced in value by the improvement in the bottom, worth 1801, per fathom. The tinstone being worth 101, per ton as broken.

EAST POOL is a mine of great resources, and capable of doing more than is now done; the lodes being large, and good for mineral.

When A GAP is compliant and provided the second of the s EAST POOL is a mine of great resources, and capable of doing more than is now done; the lodes being large, and good for mineral.

WHEAL AGAR is opening up well. The tinstuff now on the floors bears testimony to what is, and what may be, expected at an early day. The intersection of two lodes in conjunction at the 170 with the rich north lode must piece this mine at no distant day on the list, as one of the most profitable in this district. The sinking of the shaft has been resumed in a course of tin worth 70. to 80. per fathom. The tin soid during the quarter has realised 970. NORTH CROFTY, rumour says, will pay a dividend next meeting. Of GREAT SOUTH TOLGUS, many regrets were expressed that Messrs, Thomas had sold their interest in the mine, thereby severing the connection with many who had long followed them. The mine is exceedingly doubtful.

The ST. AUBNN UNITED MINES are to be recovered to the convenience of the convenience of the control of the c

St. AUBYN UNITED MINES are to be re-worked by a most re

The St. August and a special proprietary. From the high opinion entertained by the local holders it may safely be predicted they possess a prize.

WEST JEWELL has created some surprise by the discovery of a rich

WEST JEWELL has created some surprise by the discovery of a rich tin lode, which appears to have been missed when the mine was worked for copper. The mine, it is said, is now working at a profit.

NEW CLIFFORD is looking exceedingly promising. The large lode embedded in such a killas and so fine and masterly elvan, cannot fail to reward the shareholders most liberally. Local parties have a keen eye on the mine, and are quietly looking after the shares, in the expectation of sharing the riches.

MINING NOTABILIA.

IEXTRACTS FROM OUR MINING CORRESPONDENCE.]

EXTRACTS FROM OUR MINING CORRESPONDENCE.]

St. JUST DISTRICT.—It is stated that St. Just Amalgamated has recently improved, and that they have a capital lode in the 90 fm. level. The mines in the neighbourhood have been suffering from want of water for dressing purposes. The famous old Botallack Mine looks well, and at Cape Cornwall, which is worked under the sea, it is thought highly probable that a lode will be ent in a week or two. In the 70 fm. level the cross-cut is letting out a large body of water, and the ground is of the most congenial kind for mineral. The cutting a lode in this mine is a very important matter.

Some fine rocks of lead from Craig-y-Mwyn Mine, Montgomery-shire, may be seen at Mr. Endean's offices, Gracechurch-street; they are raising lead from four distinct points of the mine. It is said that only two proprietors own this valuable property, and that they will in all probability make colossal fortness by it.

NEW WHEAL LOVELL.—The East Lovell lode, from which so much tin is being raised, will be cut in the shaft in the course of a few week the result being anxiously looked forward to by parties resident in the neighbourhood. If anything can be said from indications they are safe to have

bourhood. If anything can be said from indications they are safe to have a good mine.

GREAT WHEAL LOVELL.—A 64-in. cylinder steam-engine has been purchased for this mine, and will be crected immediately. This sett embraces the East Wheal Lovell and Trumpet Consols lodes, being situate between the two; from the latter lode they are raising some good tin work. Although only yet a few fathoms from surface, this speaks well for deeper levels.

KING ARTHUR SILVER-LEAD MINE (Limited).—Since the report made by the manager on June 1 the following further satisfactory intelligence has been received from him. Under date of the 8th inst. he writes:—"The lode at King Arthur continues to improve, and still holds down nicely; in the bottom the three branches of ore are now making towards each other, and in a fathom or so more will, I expect, make a nice deposit of lead." A committee of the directors visited the mine last Saturday, and verified in person the report made to the board on June 1. There is no question as to the importance of the recent discovery, as also that at no distant period, and with a moderate outlay, considerable returns of rich silver-lead in a solid state will be forthcoming, as all appearances tead to confirm the opinion expressed by the manager in his last report.

ROSEWALL HILL AND RANSOM UNITED MINES, situated in the St.

all appearances tend to confirm the opinion expressed by the manager in his last report.

ROSEWALL HILL AND RANSOM UNITED MINES, situated in the St. Ives time district, Cornwall, and Joining the well-known tim mine of St. Ives Consols, divided into 5895 parts or shares, with a capital expended of 24,0001, has now been brought into a good working condition, and placed in the Divideud Lists. The official staff is highly respectable and practical—a good purser, committee, and underground agents, with machinery of superabundance of power for pumping, drawing, stamping, and dressing for a considerable increase in the returns of tin. The future prospects of themine are cheering, having three of thes, and they are daily expecting to intersect one of them, 150 fms, west of the boundary. The mine is now marketable from quotations at about 10,0001.

PEN'ALLT (Silver-Lead).—This undertaking is making most satisfactory progress. The lavadors from the stream conveying the water to the wheel are nearly finished, and the ensuing week will see the wheel in motion. Meanwhile operations are proceeding for the erection of the crusher, and the dressing-machines are being made at Aberystwith. The incline to convey the ore from the different levels to the crusher is being laid, and by the end of the quarter ending September. Meanwhile reference should be made to the report from Capt, Gianville, given in another column, from which it will be seen that the ore is not only improving in value, but that it is increasing in quantity, though up to the date of the report the lode had not been intersected in No. 4 sross-out, though up to the date of the report the lode had not been intersected in No. 4 sross-out, though probably we shall be able to announce the fact in next week's Journal. A personal inspection of the mine on Tuesday last, made with competent observers, satisfied us that Capt. Gianville's report, attisfatory as it is, is under drawn. The facts are more encouraging than the statements of them in the report. The rising in No.

EXTRACTING SILVER FROM ITS ORES,-Mr. J. Doble, in his report EXTRACTING SILVER FROM ITS ORES,—Mr. J. Doble, in his report to the Queen Mining Company, says—'I have for several weeks past been engaged in treating the silver ores from this mine by different processes, two of which I feel condont will succeed in extracting the silver from the ores at a profit. The first method is by roasting the ores (after being ground very fine) with common sait; the heat expels the chlorine gas from the sait, and having an affinity for the silver ore (after the ore becomes desulphurised by heat), forms the chloride of silver. After the ore is sufficiently calcined it is allowed to cool, and introduced with scrap iron into revolving casks, the chlorine having a greater affinity for iron detaches itself from the silver, and attaches itself to the iron, forming chloride of iron, and the silver is thrown down in a metallic state. Mercury being introduced into the casks dissolves the silver, and after several hours rotation of the casks the spent materials are washed from the mercury, which matter is introduced into sacks made either of leather or tick, the excess of mercury filters through, and a not solid amalgam of silver is found at the bottom of the sack, which is put into a sultable refort. Heat is applied to volatilise the mercury, and the metallic silver is found at the bottom of the re tilise the mercury. The the metallic silver is found at the bottom of the re The second method is mixing of the ores with hydrochloric acid, when the riple of silver is formed as in the first method, and the amalgamating parried on as above. Due to say, in conclusion, that if the ores are ground fine (as much of the success of the treatment depends on its fineness) that producing 19 oss, and above will be returned to a profit.—J. W. Donle." e retort. Heat is applied to vola ound at the bottom of the retort hydrochloric acid, when the chio

THE CORNISH MINE SHARE MARKET,-The advance in the tin plandard on Friday last has given a fresh impetus to activity in the Cornish sine Share Market during the last week, enhancing quotations for most shares, and increasing transactions, notwithstanding the holidays intervening. Price-obtainable for tin ores are at present remunerative, both to adventurers and sulpers.

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e in

issions.

SOUTH WHEAL FRANCES.—Mr. Robert R. Broad, for the committee of management, writes:—We have great pleasure in communicating to our consequent of the control of th

atinues to open up favourably.

WHEAL SETON.—A correspondent writes:—What is the matter in heal Seton? Certainly something is very wrong indeed, and if half the re-Wheal Sector.—A correspondent writes:—What is the matter in Wheal Sector? Certainly something is very wrong indeed, and if half the reports are true a decided action must be taken at once to save the property. The agents cannot pull together harmoniously for the good of the adventurers. At least an enquiry must take place. The call is expected to be 30s, per share.

WEST GREAT WORK, in Breage, is improving, and a new rod com-

mnnicates with a shaft lately sunk in the valley below Trescow. The extent and produce of this mile will soon enable it, we believe, to be in a good-paying MAPS OF MINING DISTRICTS FOR SALE.

SOUTH ST. JUST TIN MINING COMPANY.

A deputation of the directors of this company, accompanied by their consulting engineer, and a well-known mine captain, visited the mine on Friday, May 27, to ascertain whether the representations made respecting the property were borne out by facts. After a lengthened and strict examination they returned fully satisfied in every respect. At a meeting of a full board, on Monday, May 30, it was resolved that the mine be immediately put into vigorous working, and instructions to that effect were forwarded to the engineer and Mr. William Angwin, of St. Just, the resident manager and purser. An efficient captain—William Williams, late of the Botaliack Mine—was forthwith engaged, as well as a staff of miners; and on Monday, June 6, this neglected tin mine was set to work. All the machinery being in perfect order, no delay took place, and in a few days the levels, which have necessarily been slightly injured during the late suspension, will be set to rights, and the raising of tin be resumed. A catalogue of the materials machinery, &c., on the mine was published in the company's prospectus.

Their examination was not confined to the mine, state of the materials, buildings, &c., but included the inspection of the humerous

was published in the company's prospectus.

Their examination was not confined to the mine, state of the materials, buildings, &c., but included the inspection of the numerous lodes visible at the surface, the backs of many of which have been wrought on by the ancients for many hundreds of fathoms. One lode, the great Guide, attracted especial attention, as it affords one of the best examples of a true lode to be found in this county, the width being nearly 20 ft., with perfectly well-defined walls, nearly perpendicular. The whole of this lode will pay to stamp at present prices of tin ore. The object of the present company is, however, to continue deep levels and prove the numerous lodes (nine known to exist) at their junctions with each other and with the great Guide.

In the neighbouring mines these points have invariably yielded great results, and it is beyond doubt that the South St. Just will not prove an exception to the general rule. It may be well to mention that the mines alluded to are Balleswidden, St. Just Amalgamated, Boscean, Bosorn, Wheal Owles, Botallack, Levant, Carnyorth, Spearn Moor, &c., whose immense riches have been may reverbial.

The South St. Just shares have been rapidly taken up; no mine has been placed before the public under better auspices, or on more favourable conditions; no outlay will have to be made for costly pumping or steam machinery, water power being available for any requirements, and no time will have to be expended in repearatory work.

ourable conditions; no outlay will have to be made for costly pumping or steam machinery, water power being available for any requirements, and no time will have to be expended in preparatory work. In three months a parcel of tin will be in the market, and in a brief period the mine will be remunerative. Its abandonment was solely attributable to the low prices for tin at that time prevailing, and the want of a little capital to develope the important points the present company purpose effecting. A perusal of the company's prospectus shows what these are, and plainly states the probabilities of success; these are unusually favourable. And in addition to the before-named advantages, it may be stated the lord's dues are no more than 1-24th, and no compensation for surface damages; an excellent parish road to the mine, and plenty of skilled labour in the locality—in fact, tributers have already applied for pitches in the mine, and as soon as possible these will be let.

The deputation brought back with them several splendid specimens of tin ore selected from the different lodes for the satisfaction of their friends and coadjutors, and which may be seen at the offices of the company.

of the company.

PACIFIC MINING COMPANY.

TO THE EDITOR OF THE MINING JOURNAL.

SIR,—I have read with great interest the account of the meeting of this company in last Saturday's Journal. It appears to me somewhat extraordinary that the shareholders have been kept in ignorance until now by the directors of how matters really stood; rarely have I seen any report from the mines published. I have remarked that our shares have been depreciated in value, but could not understand the reason. I am informed, however, that some of the directors are connected with the Stock Exchange; perhaps this circumstance will afford a clue to the reason why information has not been regularly published. Many of the foreign mining companies adopt, in my opinion, a most excellent plan, which ought to have been followed by the Pacific Mining Company—that of publishing full reports in the Mining Journal, and also sending a brief abstract immediately as received, in the form of a circular, to every proprietor; thus country shareholders are kept well informed upon all points, and are enabled to follow satisfactorily the present position and future prosperity of their investment. TO THE EDITOR OF THE MINING JOURNAL.

are enabled to follow satisfactority the present persons of their investment.

In the case of the Facific Mining Company, possessing two such very valuable properties, the directors ought to adopt every plan for conveying information, not only to the select few, who have opportunity of constant perusal by application at the offices of the company, but of the large majority who cannot personally avail themselves of any such opportunities, and who are thus left in constant doubt, uncertainty and anxiety by the directors' neglect.

A SHAREHOLDER.

[For remainder of Original Correspondence see this day's Supplement.]

CHEMICALS, MINERALS, AND METALS—(Messrs, J. Berger Spence and Co., Manchester, June 9).—Soda: Crystals experience an excellent demand, at 4t. to 4t. 5s. Cream caustic soda is active, at 12t. 10s. for 60 per cent.; and white, at 13t, to 13t. 10s. Bl-carbonate, 9t. 5s., and 15t. for refined. Salt-cake brisk, at 58s. Soda ash firm, at 1 11-16d. to 13t. 6t. per degree. Sulphate of soda, 3t.—Nitrate of soda is in rather quiet request, and prices rule at 15t. to 15t. 10s. on the spot.—Potash: For muriates the demand has slightly slackened, but 8t. 7s. 6d. to 8t. 12s. 6d. may be quoted for 80 per cent.—Saltpetre: Foreign ranges from 23s. for inferior percentages, to 26s. 3d. for 4t/g per cent. English refined, 28s. to 28s. 6d.—Alum is in steady demand, at 6t. 5s. for loose lump, and 7t. in export barrels; ground, at 7t.—Ammonia: Brown sulphate not quite so active as usual, but without alteration, at 13t. to 13t. 10s. White and grey enquired for, at 15t. to 16t. 5s.—Copperas: Green and rusty meet with a better market, and 52s. is fully maintained. Dry in average request, at 52s.—Arsenic: At 7t. to 7t. 5s. for fine powdered.—Acid: Oxalic steady, at 8d. Tartaric quieter, but firm, at is. 2½d. to 1s. 3d. G. Sulphuric, at 2s. 15s. per ton.—Magnesia: Epsom salts, at 4t. 10s. to 4t. 12s. 6d. for refined.—Olis: Mineral refined, at 1s. 1½d. to 1s. 3d. Oilve, 48t. to 5d. Purest Norwegian cod liver oil, at 9t. 10s. per barrel of 25 gallons.—Pitch: There is some appearance of an improvement in this article, an advance on previously-quoted prices having been offered, but refused.—Guano: Best Peruvian, 13t. 7s. 6d. to 13t. 10s.—Disinfectants: Carbolic acid quiet, at is. to is. 3d. per ib. Patent, at 5t. per ton for sewage purposes.—Pyrtes: Much the same, and firm, at 6½d. to 7½d. per unit. Calclued Spanish, at 43s. 6d. R.C.—Lime: Bleaching powder is animated, at 8t. to 8t. 5s. Super-phosphates moderately active, at 4t. to 4t. 5s. Mineral phosphates, at 54s. for 65 per cent.—Manganese: At 89s. for 70 per cent.—Fron 0rc: Hematite, 13 CHEMICALS, MINERALS, AND METALS-(Messrs, J. Berger Spence

Mr. F. R. Wilson, of St. Helen's-place, has accepted the financial anagement of the Leeds and St. Aubyn Mining Company.

COOK'S KITCHEN.—These shares have had an excellent move in the right direction, and we hear that the lode in the 236 fm. level fully justifies such a move, having, by the sampling, produced a large quantity of tin. A most important point may be expected shortly in Bungy's shaft.

EAST BASSET.-Five shares in this mine were sold through the Vice Warden's Court on Wednesday, in consequence of several parties not being able to pay calls due on them. The sale was an excellent and a very spirited one. It is stated that the mine is likely very soon to take a very prominent position in the market. The shares are now being sold at about 9. or 10. per share, or only 5000. for the mine, quite a nominal price.—Western Morning News.

share, or only 5000f. for the mine, quite a nominal price,—Western Morning News,
MANUFACTURE OF WHITE LEAD IN AMERICA,—It is estimated
that at least 40,000 tons of white lead were produced in the United States last
year, and of this fully one-third by four establishments in Brooklyn. The
largest corroding works in the country are in this city. It is further estimated
that about 700 tons of lead in oil were imported in 1869, and about 1800 dry.
The amount of pig-lead consumed in the United States the same year was over
30,000 tons, nearly all of which, as we have stated, is imported. The actual
capital invested in the corroding business alone cannot be much less than
\$30,000,000, and fully 5000 hands are regularly employed. If we look at the
business incidental thereto, such as grinding, colour-making, and selling, the
proportions of this industry are vastly enlarged.—New York Engineering and
Mining Journal.

LONDON GENERAL OMNIBUS COMPANY.—The traffic receipts for

the week ending June 5 was 11,826. 118. 7d.

HOLLOWAY'S OINTMENT AND PILLS have repeatedly effected cures which the utmost skill and sagacity had previously signally falled to accomplish. The worth of these noble remedies will never be undervalued by those whose sufferings they have relieved, and whose soundness they have renewed, after constitutions were theroughly broken down by continuance of irritating ulcerations, the discharge from which had almost completely drained away the strength. Holloway's purifying and soothing treatment reaches the root of the evil, which it extirpates—the necessary step to a permanent and satisfactory cure. In bad legs, ulcerations, and the majority of cutaneous complaints it is not enough simply to skin over the surface, poisonous and effete matters must first be counteracted and expelled. week ending June 5 was 11,8261. 11s. 7d.

BRYMBO AND RUABON DISTRICT.....£1 CRENVER AND ABRAHAM DISTRICT 1

 CARADON DISTRICT
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 CARADON AND LUDCOTT DISTRICT
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selves. If they are not judges, take their agent, and be convinced of its come fides.

Clients, investors desirous of making money rapidly should at once apply, according to their means, for shares at 25s. each, fully paid up, no further liability. There is really no risk, from the yield of tin through the 48 heads of stamps, which is considerably over that represented in the prospectus; it is now a conclusive matter that a dividend mine is certain. We are advised when the 200 heads of stamps are at work that instead of 10 tons of tin, as represented, they will be enabled to send nearer 30 tons of tin, worth £75 per ton, into the market monthly. We are so theroughly convinced of the value of this property that we strongly advise our clients and investors to lose no time in making application to us for the few unallotted shares. No shares after the 15th can be supplied under 30s. each, therefore application should be made at once for the shares at 25s, each to Messrs. Endean and Co., 85, Gracechurch-street, London, E.C.

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1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

SATURDAY.—Market active for Cook's Kitchen, Grenville, East Grenville, Tincroft, North Crofty, Great Laxey, and Chiverton. Bwich Consols, 35\, to 33\, co 34\, co 34\, co 34\, co 36\, co 34\, co 3

19½; Great Vor, 10 to 11; F.ingston Down, 10s. to 18s.; Marke Valley, 7 to 7½; New Lovell, 23½ to 3; North Crotty, 3½ to 39½; Prince of Wales, 18s. to 17s. 6d.; Providence, 88½ to 59½; Wheal Chiverton, 2½ to 2½; Wheal Grenville, 2½ to 2½; Kitty (St. Agnes), 7 to 7½; Australian United, 2% to 2½; Condon Pedro, 3½ to 3½; Frontino and Bolivis, 18s. to 20s.

Thurshotz,—Market very dull. Van Consols, West Marla, and East Lovell flat at a reduction. Bwich, 3½ to 3½; Chiverton Moor, 4¾ to 5½; Cook's Kitchen, 21 to 23; Drake Walls, 1½ to 1½; East Caradon, 4½ to 4½; East Lovell, 24 to 35; East Grenville, 2¾ to 3; Great Laxey, 18½ to 19; Great Vor, 10 to 10½; Hingston Down, 10s. to 18s.; Marke Valley, 6½ to 7½; East Caradon, 4½ to 4½; West Lovell, 2½ to 3; Sorth Crotty, 3½ to 3½; Prince of Wales, 18s. to 17s. 6d.; Providence, 39 to 40; Tankerville, 18½ to 19; Van, 78 to 80; Van Consols, 4 to 4½; West Grenville, 2½ to 2½; Wheal Grenville, 2½ to 2½; Wheal Grenville, 2½ to 2½; Wheal Kitty (St. Agnes), 7 to 7½; Pacific, 8½ to 8½; Don Pedro, 3½ to 3½; Chiverton Moor, 5 to 5%; Cook's Kitchen, 20 to 22; Drake Walls, 37s. to 29s.; East Caradon, 4½ to 5; Agnes, 4 to 4½ to 5; and 10½; Kast Grenville, 18½ to 19; Yan, 78 to 80; Van Consols, 4½ to 4½; West Grenville, 2½ to 5; York Crotty, 3½ to 3½; Chiverton Moor, 5 to 5%; Cook's Kitchen, 20 to 22; Drake Walls, 37s. to 29s.; East Caradon, 4½ to 5; Ast Grenville, 18½ to 19; Van, 78 to 80; Van Consols, 4½ to 4½; West Chiverton, 54 to 5; West Steton, 120 to 125; Wheal Seton, 20 to 25; Australian, 2% to 3½; Cook's Kitchen, 20 to 125; Wheal Chiverton, 3½ to 5; Kets Steon, 120 to 125; Wheal Chiverton, 3½ to 5; Cook's Kitchen, 20 to 125; Wheal Chiverton, 3½ to 5; West Steton, 120 to 125; Wheal Chiverton, 3½ to 5; Cook's Kitchen, 20 to 125; Wheal Chiverton, 3½ to 5; Kets Steon, 120 to 125; Wheal Chiverton, 3½ to 3½; Cook's Kitchen, 20 to 125; Wheal Chiverton, 3½ to 5; Kets Steon, 120 to 125; Wheal Chiverton, 3½ to 3½; Greav Vor, 10 to 19; West Chiverton, 5½ to 5; West Chiverton, 5½ to 5; West

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Mining Correspondence.

BRITISH MINES.

ARERDAUNANT.—J. Roberts, June 8: In the No. 2 adit end the flookan has thrown the lode entirely to the left hand, and consequently the whole of the lode is standing. On this account you will be able to effect a communication to the deep adit in a very short space of time, as in a little more than a month this level will the new than a month this deep adit in a very short space of time, as in a little more than a month this ententian to vield full 1½ ton of lead per fathem. We have commenced the real shouts feet wide, and will stope at a good profts.

ENDFORD UNITED.—James Phillips, June 9: We have communicated the lost in keyl, east to the winze, sunk from the 9½ but have not been able to take 03 fm, level, east to the winze, sunk from the 9½ that have not been able to take 03 fm, level, east to the winze, sunk from the 9½ that have not been able to take 03 fm, level, east to the winze, better with the main parts of the lode being northway are driving by the side on the south part, which produces stones of ore occasionally. The lode in the 90 fm, level west is 3½ ft. wide, producing 3½ tons of ore per fathom; and the stope in the bottom of this level is worth 4 tons per fathom. We have set the stopes in the bottom of the level in worth 4 tons per fathom. We have set the stopes in the bottom of the level in worth 4 tons per fathom. We have set the stopes in the bottom of the level is worth 4 tons per fathom. We have the winze, both of which produce 4½ tons of ore per fathom. We have commenced cutting into the lode in the 75 cast, and shall be in a position to report the value next week. The stope in the back of this level is yielding 5 tons of ore per fathom.

BLUE HILLS.—S. Bennetts, J. Andrews, June 4: Claridge's shaft progresses much as usual; the ground is easy for sinking, and the lode unsettled, with cecas onal stones of the. In the 66, at Letcher's, we have commenced opening cut east, and shall be in a position to the cecas onal stones of the shaft, and find in the rise some small but good stones of the l

there is every indication of further improvement. There is nothing new in the other bargains.

CAPE CORNWALL.—R. Pryor. J. Davey, June 7: On Saturday, June 4, the following were set:—The 100 fm. level cross-cut to drive north of engine-shaft, by four men, at 14L per fathom: the only alteration to notice in this end is a little increase of water. The 70 cross-cut to drive south of shaft, by four men, at 14L per fathom; the end is bursting with water, and although kindly it makes it spare for driving.

CARADON CONSOLS.—S. Bennetts, June 7: The Clymo's lode in the west end, at the 90, is 2 ft. wide, and yielding a ton of ore per fathom. The same lode east is 14 ft. wide, spotted with ore throughout, but not enough to value. The No. 2 lode in the 78 cast is 2½ ft. wide, and producing a ton of ore per fathom. There is no change to notice in either the shafts below the 90, or the winze below the 78.

There is no change to notice in either the shafts below the 90, or the winze below the 78.

CARDIGAN BAY CONSOLS.—Charles Williams, June 9: Pensarn: We have cut into the south part of the lode about 5 ft., which is chiefly composed of spar, slate, and blende, impregnated with lead ore of rich quality, showing indications of being near the rich shoots of ore known to exist towards the north of our present workings, and which I am daily expecting to interesct.—Eastern Addt: The lode in this level is '4 ft. 6 in. wide, principally composed of spar, carbonate of lime, gossan, munde, and rich silver-lead ore, yielding of the latter 1 ton per fathom, a good paying lode.—North Addt: The ground in this level is much of the same appearance as when last reported upon, showing strong ribs of lead and copper ores. We look forward with great interest to the intersection of the lead lode in this level, which will be from 60 to 70 fathoms deep, where, in my opinion, a good mine will be opened out on this ore lode alone.—Brynarian Old Adt: The ground in this adlitevel is still spare for driving, and consisting of slate, spar, blende, and small ribs of ore at times.—Boundary Shaft: The carpenters are now fixing the horse-whim over this shaft, which will be completed and at work on Monday next. This will facilitate our progress very considerably. All surface work is being pushed forward as much as possible.

CABN CAMBORNE.—John Truscott, June 6: In driving the 85 west, on the

CARN CAMBORNE.-John Truscott, June 6: In driving the 85 west, on the

Shaft: The carpenters are now fixing the horse-whim over this shaft, which will be completed and at work on Monday next. This will facilitate our progress very considerably. All surface work is being pushed forward as much as possible.

CARN CAMBORNE.—John Truscott, June 6: In driving the 85 west, on the great part of the lode, to get under the wines sinking in bottom of the 70, the lode as of the same size and value (101, per fathom). In driving east of shaft, at the 70, the lode as present is poor. The wines sinking in bottom, on the north part of the dock, is down 10% fathoms, and worth for the breakth carried for the and copper 201, per fathom. In driving west on the south part the stope, in bottom of the 60, is worth for in 10% fathoms, and worth for the breakth carried for the and copper 201, per fathom. In driving west on the south part is stope, in bottom of the 60, is worth for in 10% fathoms, and No. 2 stope is worth for the 81, per fathom.

CHIVERTON MOOK.—G. E. Trenapne, W. Bennetts, June 4: Setting Roport: A cross-cut to drive at the 105 fm. level, by six men, at 41, per fathom. The 53 fm. level to drive west of Harris's shaft, by six men, at 41, per fathom. The 53 fm. level to drive west of Harris's shaft, by six men, at 41, per fathom. The 53 fm. level, by drive men, at 21. 10% per fathom; the lode is 6 ft. wide, worth 10 ewis. of lead per fathom. A stope in the back of the 10 education of load per fathom. A stope in the back of the 70 ewis. of lead per fathom. A stope in the back of the 70 ewis. of lead per fathom. A stope in the back of the 70 west, of lead per fathom. A stope in the back of the 70 west, of lead per fathom. A stope in the back of the 70 west, of lead per fathom. A stope in the back of the 70 west, of lead per fathom. A stope in the back of the 70 west, of lead per fathom. A stope in the back of the 60 west. A stope in the back of the 70 west, of lead per fathom. A stope in the back of the 60 west. A stope in the back of the 70 west, of lead per fathom. A stope in the back of th

water days, over the ground is valuer more lavourable for sinking, and the water days, over the base of the discovered the lade, west of Baryta cross-course, and have opened on it. It presents a beautiful Ow MOLOG.—T. B. Davies, June 4: I am glad to say we have discovered the lode, west of Baryta cross-course, and have opened on it, it presents a beautiful appearance, and we now red as see a more promising fode, which has everything about it to warrant a specify success. I should recommend to clear floathest's adic at once, so that it injure he prolonged to interact it e above lode (in depth), which will now merely on the surface pay a good dividend. If the dressing machinery were pat up. The width of the lode of cannot exactly tell, but as far as we can indge it is about 6 tt, hearing lead at through. This discovery has amaxingly increased the value of the mine. Everything connected with the mine is going on we'l, especially the burrows.

— T. B. Davies, June 9: I am very pleased to asy we are getting on well at the mine. The new lode is improving daily in No. 4. We have discovered the forebreast of the No. 2 stope, which is much better than we expected to see. These are two leaders of lead, one on the heading-wall, and the other on the hanging-wall, solid; it is the best lead I have seen. series of the No. 2 stope, which is much better than we expected to see, use are two leaders of lead, one on the heading wall, and the other on the winging wall, solid; it is the best lead I have seen,

EXCELSIOR.—G. Rickard, June 8: We have passed through two branches in the deep adft level cross-out, driving south, varying in size from 6 to 10 inches wide, consisting principally of appel and spar, letting out water freely; we are prosecuting this point of operation with a full pare of eight men, and good progress is being made.—Wheal Thorn Lode: The shaft sinking on this lode is at present not looking quite so well, owing to it being divided by a small horse of killas; this change we consider is only temporary, and we may reasonably expect in a few feet further sinking it will become quite equal to its former appearance and value.

DEEP LEVEL.—June 8: The lode in the 120 yard level, west of cross-cut, at Trustee's shaft, on the new vein, is 2 ft. wide, composed of clay, and producing large solid lumps of lead ore—a very promising lode, and from present appearances we believe we shall soon open out some good deposits of lead ore, as the level, is in a lode 18 in. wide, composed of clay, and yielding good solid lumps of lead ore; the lode at this point looks promising for further improvement shortly. The 80 yard cross-cut, long south from Trustee's shaft to intersect the new vein, is progressing favourably, and is going out in a fine channel of ground; we meet with occasional stones of lead ore in the driving. We have every reason to believe that when the lode is cut at this point it will be found more productive than at the 120. We have commenced to drive a cross-cut. Such a commenced to drive a cross-cut the deep level south-west since our last report. The lode going south from the deep level south-west since our last report. The lode going south from the bottom of the sump-winze, on Pantyffrith vein, is 3 ft. wide, composed of limestone, clay, and producting occasional stones of lead ore, but not much to value. The lode in the 146, north from north shaft, on Pantyffrith vein, is 3 ft. wide, composing of limestone, spar, and spots of lead ore, but not much to value. The lode in the 146, north from north shaf

rying small ribs of solid lead ore; I feel confident in my own mind that we are very close on a body of lead ore.

EAST BOTTLE HILL.—J. Eddy, June 8: North Lode: We finished taking down the lode yesterday; I am happy to say the lode has both increased in size and in quality, looking much better this taking down than when taken down have every reason to believe by continuing our driving a few fathoms further east into the hill, and near the grantte, we shall and this lode good and profitable to the adventurers.—South Lode: We are continuing the cross-cut south towards this lode, by four men; the ground in the present end is favourable for driving. We often meet with mineral branches crossing the end. Judging from this, and with this lode seen further west, to the depth only of 6 fms.—large and producing good stones of tin—f have no doubt when this lode is seen in the cross-out, which will give a depth of 40 fathoms, it will also be found good and profitable.

profitable.

ARST CARADON.—J. Truscott, June 8: Caunter Lode: The 130 east is poor. The 115 east is poor.—Child's Lode: The 100 east is poor. The 100 west is worth 51. per fathom. The 90 east is worth 201, per fathom. The 90 west is worth 81. per fathom.—Seccombe's Lode: The 80 east is poor.—North Engine-Shaft: In sinking below the 40, on the course of Marke's lode, the lode is 2 ft. wide, and presenting a very encouraging appearance. In the 40 west, on No. 2 lode, the lode is large, producing a little mundle and copper ore.

EAST CARN BREA.—J. Rodda, June 8: We shall commence to take down the lode in Thomas's engine-shaft to-morrow. We have cut another branch containing good stones of ore in the 60 cross-cut, north of the old engine-shaft; water still issues freely from the breast of the end. The other points of operarer without change since last week.

vater still issues freely from the breast of the end. The other points of operaire without change since last week.

EAST NEW WHEAL LOVELL.—C. Bawden, June 9: The ground in Bawden's
ingine-shaft is much improved, and good progress is being made in sinking.
The ground in Moor shaft is also improved; we calculate in sinking 3 fms. more
to have the rich East Lovell lode in the shaft.

EAST WHEAL BASSET.—J. Lean, June 9: There has been no lode taken
lown in the 130 east for the month. The ground in the cross-cut driving towards the tin lode is slightly eased for driving. No change to notice elsewhere
ince reported on May 25.

to have the rich East Lovell lode in the shaft.

EAST WHEAL BASSET.—J. Lean, June 9: There has been no lode taken down in the 130 east for the month. The ground in the cross-cut driving towards the tin lode is slightly eased for driving. No change to notice elsewhere since reported on May 25.

EAST WHEAL GRENVILLE.—G. R. Odgers, W. Bennetts, June 4: We have no alteration to notice in either of the cross-cuts. The lode in the 95 east 1s from 15 to 18 in. wide, kindly in appearance, and worth 1 ton of copper ore per fathom. The lode in the 75 east is 18 in, wide, worth 1½ ton of copper ore per fathom. We purpose trying the back of this level, because from indications that preceded the bunches of ore in the 53 we are very sanguine that there is something near at hand. There is a good lode in the 55 east, worth 5 tons of copper ore per fathom. We find cracks in the granite; whilst these continue we have always found the lode productive. The stopes are the same as before reported.

EAST WHEAL LOVELL.—Richard Quentrall, June 8: The lode in the 70, driving west, continues to improve, and is now worth 70! per fm. I never saw the bottom of the mine looking better than to-day.

EAST WHEAL SETON.—J. Vivian and Son, H. Arthur, June 9: Cartwright's Shaft: In the 34 fm. level west the lode has increased to a width of 3½ ft., and produces 2 tons of copper ore per fathom. The western stope in the bottom of the 27 fm. level yields 4 tons of copper ore per fathom: but the castern stope is not so productive. Basett's engine-shaft has been sunk to the 34 fm. level, and we are now preparing to drive this level, the lode being about 5 ft. wide, containing a large proportion of quartz and prian, with yellow copper ore scattered occasionally throughout it. In the 20 fathom level, east of the latter shaft, the lode produces occasional atones of copper ore. FEDW.—J. Pauli, June 4: The lode in the man lode; we shall now cut through to the south side of the lode at this level to prove its full width (which has not yet been done anywhere i

men employed there are now sludging and repairing the same.—Coctia Gelthen: We have purchased a whim, which we shall commence to erect on Monday next.

GREAT FRON FOWNOG.—Wm. Wasley, June 2: The new engine-shaft is now 24 yards below the surface, and last Saturday I set to the men to sink for this month, or until the water gets too strong for barrels, at 61, per yard, to carry the shaft to the full size (15 ft. long and 10 ft. wide), and to pay all coats of ordrawing, &c., as usual. The water in the old engine-shaft continues to go down about ½ yard every week, and I hope it will soon go down a little faster.

— W. Wasley, June 9: I am glad to say, although the water is stronger than I expected at the present depth, the men are still making very good progress with the sinking of the new engine-shaft. The water in the old engine-shaft continues to go down about ½ yard a week; it is now about 5t. above the day level. We sold two little parcels of ore this week.

GREAT LAXEY.—J. Barkell, June 2: The lode in the engine-shaft sinking below the 220 is now worth for lead and biende about 600, per fathom. We are not carrying is worth about 500, per fathom. I am glad to be able to report a good improvement in the 210 end, driving north; the lode in the end is now worth 1604, per fathom, and is still improving in value as we advance northwards. The lode in the 200 end, driving north; is worth about 1001, per fundation of the latter, so as to enable us to commence two stopes, varying in value from 601, to 901, per fathom. We have leading from it, which makes it very troublesome for driving in. Yesterday we holed the rise from the 200 fm. level to come down upon the rich bunch of ore now being driven into in the 210; what only a part of the lode in this winze, which part is worth about 301, per fathom. The 190 end, driving north, is worth about 504, per fathom. In the 190 end, driving north, the lode in the level. The rise we have not many feet to drive to reach it. The 145 end, driving north has fallen off in value; it is

have men now sinking the engine-shaft deeper, so that we may have a full supply of water for the engine-stamps and dressing-floors. I have men sinking the whim-shaft on King's lode, which, with the north lode, is i fm. wide. The whim-shaft is 12 fms. east of the engine-shaft. I shall supply the stamps from King's and north lode until we get down the engine-shaft to the 20; then we shall instantly drive east towards the whim-shaft, which will be sunk to the 20. This will be 10 fms. In virgin ground, when I feel assured you will have a most valuable mine, as all the lodes we have seen are so much richer at the present bottom of adit, 10 fms. This sink of 10 fms. will lay open immense quantities of rich tin ground to take away, and with the present high price of tin large profits will be made.

This will be 10 fms. in virgin ground, when I feel assured you will have a most valuable mine, as all the lodes we have seen are so much richer at the present bottom of adit, 10 fms. This sink of 10 fms. will lay open immense quantities of rich tin ground to take away, and with the present high price of tin large profits will be made.

GREAT SOUTH CHIVERTON.—John Nancarrow, June 6: The sinking of Gifford's engine-shaft has been continued without interruption by 12 men; it is now 9 fms. 2 ft. below the 50, and is still sinking by 12 men, at 271. per fathom, and, although harder, it will be down 12 fms. below the 50 in about a momen more, when driving towards the lead ground will be commenced at once. The ground is quite congenial for lead, and the best results may be anticipated. The ground is quite congenial for lead, and the best results may be anticipated. The ground is quite congenial for lead, and the best results may be anticipated. The ground is quite congenial for lead, and the best results may be anticipated. The source of the s

per fathom. In the winze sinking in the bottom of this level the lode is 1 ft. wide, worth 5 f. fathom.

GREAT WHEAL LOVELL.—Charles Bawden, June 9: We have resumed sinking the engine-shaft, which will take the Trumpet Consols lode in sinking sinking the engine-shaft, which will take the Trumpet Consols lode in a grand sinking the engine shaft a good profit. The foundation for engine-house is taken out, and the masons will soon commence building. I hope in the course of a week to have the 64-inch wilnder engine on the mine. Everything is being pushed on as fast as possible, having dans rearred to economy.

commence building. I hope in the course of a week to have the 64-inch cylinder engine on the mine. Everything is being pushed on as fast as possible, having due regard to economy. GUNNISLAKE.—W. Skewis, J. C. Seccombe, June 9: Engine-Shaft: This is now sunk about 7½ fms. below the 48 fm. level; for this distance we have had occasional good atones of copper ore, but at present the lode is mail and poor. In the 48 fm. level west the lode is 1½ ft. wide, worth 7t. per fathom for copper. The lode in the 36 fm. level east is disordered, and has been so for the last 20 a fms., by small cross-courses. The lode in the 48, east of Piper's winze, is 2½ ft. wide, yielding saving work; for the last 3 or 4 ft. the lode here has increased in size, and improving in value, and we think will continue to do so.—Isaac Shaft: The lode in the 48 fm. level west is nearly 2 ft. wide, worth for the sun copper from 4t, to 5t, per fathom. In the eastern end of this level the lode is 1½ ft. wide, worth for copper 6t. per fathom in the 36 fm. level west, for the last 7 or 8 fms. driving we can scarcely say we have bad any lode; but the branch or division in the ground by which the end has been driven has been lottingout a quantity of water, and has drained the level above; from this we have considered the driving has been in its proper course, and we continued to expect the lode would have increased in size, and equal in appearance, &c., to that in the level above. The lode in the stopes in the back of this level is worth—No. 1, 12, per fathom; No. 2, 94, per fathom, GWYDYR PARK CONSOLS.—W. Smyth. June 7: Glwyn Liffon: The slote.

level west is 2½ ft. wide, worth for the and copper from the stopes in the back of this level it is worth—No. 1, 74. per fathom; No. 2, 91. per fathom.

GWYDYR PARK CONSOLS.—W. Smyth, June 7: Glwyn Lilifon: The sinking is progressing favourably in Sutton's shaft.—Gwydyr Park: We are getting on well with the sinking of the new shaft on Vuchesias. I am getting the timber for it: we cleared a little of the bottom, and find a good branch of lead on Hawkin's lode; the place is so full of stuff that I cannot tell much about it until the surface shaft is put through that we may clear the nine.

HAREWOOD CONSOLS.—T. Neill, June 8: The new engine-shaft is such 14 fathoms 4 feet; the ground is still favourable for progress, and is of a highly promising character for producing copper ore, and we may expect good results in cutting the lode.

HAREWOOD.—Wm. Vipond, June 6: In the level or cross-cut the "back" or "strings" have more mineral about them, and may be indications that we are near the vein.

HINGSTON DOWN CONSOLS.—Jas. Richards, June 9: In the sump-winze sinking below the 140, west of Bailey's shaft, the lode still promises to improve; it is composed of mundle, healthy capel, quartz, and both tin and copper ore, worth 20. per fathom. In the 140 east the lode is large, 6 ft. wide, composed of capel, mundle, quartz, peach, and copper ore, worth 2 tons, or cf. per fathom, with good stones of tin ore. The lode in the stope in the back of the 130 east worth 2 tons of ore, or 81. per fathom. In the 110 east the lode is 5 feet wide, yielding a little ore. In the 100 west we continue to drive by the side of the lode in favourable ground for progress. In the deep add tevel south there is a alteration.

LLYWERNOG.—J. Davis, June 8: The men have now squared down 9 fms.

worth 2 tons of ore, or 84, per fathom. In the 110 cast the 10de is 5 feet wide, yielding a little ore. In the 100 west we continue to drive by the side of the 10de in Tavourable ground for progress. In the deep adit level south there is no alteration.

LLYWERNOG.—J. Davis, June 8: The men have now squared down 9 fms.

2 ft. of the engine-shaft, and the work progresses well.

LOYELL.—J. Nancarrow, June 7: We are clearing northward in the adit, and expect to reach the north workings shortly. We are making fair progress for the wheel of stamps.

LOVELL CONSOLS.—J. Nancarrow, June 7: The sinking of the north shaft is being pashed on by nine men, and the progress is favourable. We have tried again on the first lode discovered, and are again down to water. There is the notch lodes that would do well if we had a stamps on the mine.

MAES-Y-SAFN.—June 6: In the 370, east of Groavenor's shaft, there is to change to notice. The 350 west is improving a little; the lode is now yielder some good lumps of lead, and looks kindly to improve. The 310 west is still in broken ground. The 350, west of sump-wings a proventing a few spots of lead, and its lode is of a most promising character. In the winse under the 310, west of Grevenor's, the lode has improved, it will now yield 2 tons per fathom. The slogs in the rise in the back of the 310 east is producing ½ ton per fathom. The stope in the bottom of the 310 west are producing 2 tons per fathom. The stope in the bottom of the 310 west are producing 2 tons per fathom. The stope in the bottom of the 310 west are producing 2 tons per fathom. The stope in the producing well and the stope in the producing to the producing a ton per fathom. The real no change to notice in any other place throughout the mine. The mine is in fork, and the machinery working well.

MINERAL BOTTOM.—R. Nancarrow, R. R. Nancarrow, June 9: We have completed the sinking of the new shaft to the 35, and have driven a cross-cut west 6 ft., and intersected the lode, which is quite equal to our expectations at th

cross-cut are progressing at a moderate rate, without any change to orth Lode: At this present point we are pushing on the adit tow. , not having yet reached it since heaved by the caunter lode, as refur report last week.

below, and we espect that we have not many test to drive to reach 12. The 150 min, and we have a sum of the same and the same and the same as when later than the position of the end, driving north in value; it is now worth about 105, per fathorm. The 150 is in worth 601, per fathorm, and we have a sump slinking below the 150 in which the loci is also worth 601, per fathorm. The 125 is a tree reached it since heared by the caunter lock, as referred to my the end of the lock is also worth 601, per fathorm. The 125 is a tree reached it since heared by the caunter lock, as referred to my the end of the lock is also worth 601, per fathorm. The 125 is a tree reached it since heared by the caunter lock, as referred to my the end of the lock is also worth 601, per fathorm. The 125 is a tree any alterations worthy of notice in any other part of Dumbell's, neither is there any alterations worthy of notice at Gien Boy.

Six NAT RETALLACK,—G. B. Olgers, J. Harris, June 4: The engine-shaft is not sink below the 50 fm, level 9 ft., or the month, at 161, per fathorm; lock is 161, with good stones of lead ore. The object and the lock of the loc

per fathom. The tribute pitches are looking very well. It will be seen that the 30, 40, and 30 fm. level ends are opening up a good mine.

NEW Witsburgton, and it appears as if we were at the top of a good lode of the 15 minute be borne in mind that this level has already been driven from 50 to 55 fm. on a rich lode, the whole of which has been taken away by manual labour as deep as the water would allow. There is no change worthy of remark in the copper lode.

NORTH GEOFFY well, Wesold yesterday 13 tons 8 cwts. 0gr. 10 lbs. of black in the copper lode.

NORTH GEOFFY well, Wesold yesterday 13 tons 8 cwts. 0gr. 10 lbs. of black in the copper well.

NORTH DOWNS.—Francis Pryor, James Williams, June 7: In the 70, west of the copper well. The proper lose of western winso, we expect the branches alided to in our former reports to ounite, when an improvement may be expected in our former reports to ounite, when an improvement may be expected in the 60, west of King's; then carried continues good, worth 15, per fathom, and promising to still further improve. The lode in the midway level is over 2 ft. wide, but at this time disordered by crass branches of spar. We have been obliged to suppond the winse in the bottom of the 60, by cutting an increase of water, but it will be resumed as soon as practicable. The gonacquently the progress is allow; the lode, is worth 8, per fathom. The stope in the back of the 60, on the south lode, is worth 8, per fathom. The stope in the back of the 60, on the south lode, is worth 8, per fathom. The stope in the back of the 60, on the south lode, is worth 8, per fathom. The stope in the back of the 60, on the south lode, is worth 8, per fathom. The stope in the back of the 60, on the south lode, is worth 8, per fathom. The stope in the back of the 60, on the south lode, is worth 8, per fathom. The stope in the back of the 60, on the south lode, is worth 8, per fathom. Our parcel of or crailsed 4, 12s, per ton, instead of 61, 10 lbs. as catimated.

OKEL TOR.—W. B. Collom, June 9: Our explo

ent through, the part seen being worth 10t, perfathom. The stopes and pitches are producing their usual quantity of tin. We have sold 9 tons 2 cwts. 2 qrs. [6] lbs. of black throthe Truro Tin Smelting Company, for 7431. los. 2d. We have sold 24 tons of areacie, at 3t. 15s. 10d. per ton, to Mr. R. Michell. No other changes to report.

PENHALE UNITED.—R. Pryor, H. Bennetts, J. Pryor, June 3; The tutwork bargains throughout this mine continue just the same as for some time past, with the exception of the lode in the 110 fm. level, diving north of Phillips's engine-shaft, which has improved, now worth fully 8 cwts. of lead per fathom. PENHALE WHEAL VOR.—W. H. Martin, June 8: The engine shaft men have sunk for the fork below the 130, and are now engaged sollaring the shaft. The lode in the 120 west is composed of prian, peach, expels, munchic, and a little in. In the 120 east end the lode is on the 130 and are now engaged sollaring the shaft. The lode in the 120 west is composed of prian, peach, expels, munchic, and a little in. In the 120 east end the lode is part. Our machinery is working well.

PENHALIS.—S. Bennetts, W. Higgins, June 4: In the majority of the points of operation there has been no lode broken since Saturday last. In the rise, however, in the back of the 50, east of engine-shaft, the lode and its accompanying branches look better; altogether it is nearly 6ft. wide, and worth 15t. per fathom. At Sarah's shaft the lode in the rise above the 17 has again improved, and now worth 12t, per fm. The 17 west end is also a shade better. The two new burning-ovens will be ready in the course of next week.

PEN'ALIT.—T. Ganville, June 6: In the rise above No. 1 cross-cut, at the junction of the cross-course and east and west lode, the part rising in continues to yield 30t. worth of silver-load ore per fathom. At No. 2 we have cleared out an ancient working in the cross-course in 2 ft. wide, and as far as can be seen at plotted working the cross-course and east and west lode, the part rising in continues to yiel

of flookan and mundle.

SOUTH MERLLYN.—June 9: Vickers's Shaft: During the past month the 80 yard level, south of this shaft, has been driven 4 yards 2 ft. 6 in.; re-set to-day to be driven by four men, at 60s. per yard; the lode in the present end of the level is about 2 ft. wide, composed of linestone and spar, intermixed with good lead ore. The sump sinking below the 89 yard level, north from the same shaft, has been sunk 9 yards; re-set to sink by four men, at 40s. per yard. We good lead ore. The sump sinking below the 80 yard level, north from the same shaft, has been sunk yards; re-set to sink by four men, at 40s. per yard. We have met with some very large lumps of lead during the progress of our operations at this point.—Ruddi's Shaft: in consequence of the ground becoming hard in the cross-cut at the 60 fm. level we have thought it advisable to put two men to cross-cut west to the weatern lode from the 80 yard level, south at Vickers's shaft, at a point about 20 yards from the shaft; we shall make good progress, as the ground is looking favourable, and has been so at 4 de, per yard, SOUTH PLYNLIMMON.—J. Walters, June 8: The engine-shaft is down firms from surface. I am pleased to say that we have bored a hole through from the shaft to the adit level, and let down the water, and hope to have a communication to the adit level, and let down the water, and hope to have a hast out the level, to save all the hauling with tackle. The cross-cut is in about 11 fms, towards the shaft, and it will take a fow days to square the ground; we have been pressing forward to meet the bors-hole from the shaft. We are getting on with our smith's shop as fast as possible. I hope to have the walls finished cutting the road to the mine. We are busily engaged this morning about our huts. The masons will commence the masonry for the wheel-pit to-morrow.

SOUTH VAN.—J. Bichards, June 9: The sinking of the engine-shaft is pro-

Asout our fults. The masons will commence the masonry for all wheel-pic solution are to morrow. So UTH VAN.—J. Richards, June 9: The sinking of the engine-shaft 1 progressing as fast as the nature of the ground will admit. We are making rapid progress in excavating the wheel-pic; this will be completed next week. The masons will commence the pit on Monday, and no time will te lost in order to Sr. JUSF AMALGAMA PED.—Richard Pryor, T. Gundry, Nicholass Burle, Jane 7: Saturday last being our pay and setting, we set the following bars week to notice. I saturday last being our pay and setting, we set the following bars to startly last being our pay and setting, we set the following bars to without change. WHEAL BULLER.—past week to notice. I will be a startly last the lode in this leads to a functional progressing the wholes of the will be able to a functional progressing. To stope the back of this level, cast of shaft, by three men, at 14, 10s, per fathom; the lode here is worth 44, per fathom. The 90 to drive west

of shaft, by four men, at 41. per fm.; the lode has very much improved in size and value, being now 4 ft. wide, and worth 101. per fathom. To stope the back of this level by two men, at 21. 105, per fm.; the lode is 3 ft. wide, worth 81. per fathom. To stope the back of ditto by four men, at 22. per fathom; the lode is 3 ft. wide, worth 81. per fathom; the lode is 3 ft. wide, worth 41. per fathom; the lode is 3 ft. wide, worth 41. per fathom; the lode is producing good stones of tin—a kindly lode, and promising an improvement. To stope the back of this level, east of shaft, by two men, at 21. 105, per fathor; the lode is 14. the lode is 10. Sept fm.; the lode is 4 ft. wide, worth 41. per fathom. To stope the back of this level, by two men, at 22. per fathom. To rise in the back of this level, by two men, at 23. per fm.; the lode has been taken down; therefore no change has taken place of this level, by two men, at 24. per fathom. To stope the bottom of the 10, by two men, at 11. 105, per fm.; the lode is 2 ft. wide, worth 41. per fathom. To stope the bottom of the 10, by two men, at 21. los, per fm.; the lode is 3 ft. wide, worth 31. per fm.

To stope the back of this level, by two men, at 22. per fm.; the lode is 3 ft. wide, worth 32. per fm.

To stope the back of this level by two men, at 21. los, per fm.; the lode is 2 ft. wide, worth 32. per fm.

To stope the back of this level by two men, at 21. los, per fm.; the lode is 3 ft. wide, worth 32. per fm.

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To stope the back of this level by two men, at 21. los, per fm.; the lode is 3 ft. wide, worth 32. per fm.

To stope the back of this level by two men, at 21. los, per fm.; the lode is 3 ft. wide, worth 32. per fm.

The lode is 3 ft. wide, worth 32. per fm.

To stope the back of this level by two men, at 21. los, per fm.; the lode is 3 ft. wide, w

dipper shaft, by two men, at 2l. per fm.; the lode is worth 4l. per im. we asset our usual number of tribute pitches, and the pay and setting went off very satisfactorily.

TAMAR Valley.—Capt. Goldsworthy, June 9: There is no change of importance since last reported on. Good progress is now being made through the several bargains.

TANKERVILLE.—Arthur Waters, June 9: Watson's shaft is in the deepest place, about 10 ft. below the 92, and we are now squaring down the ore on both sides of the cavity; the lode throughout the shaft continues to yield its usual quantity of solid ore-stuff and is as rich as ever. The stope in back of the 92, west of ladder-wince, is producing large quantities of ore, (say) 12 tons per fathom. A rich lode is going down in the 92, west of Brown's shaft. The lode in back of the 92, west of said shaft, is worth 6 tons per fathom. The other places in the mine are without change since my last. The winding-engine in the 74, as well as the new engine at surface, were started for good yesterday, and I am glad to say they both do all we require of them, and work admirably. Watson's shaft, below surface, goes down speedily. We sampled 30 tons of rich ore yesterday, for sale on Wednesday next. We have made a beginning for the next sampling.

TERRAS.—J. Edwards, June 9: I am progressing, and the tin is coming out most satisfactorily from the stamping-mill and round buddles. I have completed and set to work one of the hand-buddles, and hope to have another at work to-morrow. I have been and still am deficient of dressers, and also of operators generally. I have this week put out and posted extensively hand-bills, which notice will, I think, bring to me an ample number of good operatives; and if so, and at once, I shall have ready for market this month the quantity of tin promised.

TREWETHA.—T. Foote, June 8: Setting Report: Friday last being our set-

work to-morrow. I have been and still am deficient of dressers, and also or operators generally. I have this week put out and posted extensively hand-bills, which notice will, I think, bring to me an ample number of good operatives; and if so, and at once, I shall have ready for market this month the quantity of tin promised.

TREWETHA.—T. Foote, June 3: Setting Report: Friday last being our setting-day, the following bargains were set:—To drive north at the 62, North Mine, to four men, 2 fms. stent, at 31, per fathom; the lode looking more kindly, but still poor. One stope in the back of this level to four men, stented 10 fms., at 11, per fathom, worth 5 cwts, of lead per fathom; the lode full 3 ft. wide, worth 6 cwts. of lead per fathom. Two stopes in the back of this level (No. 1) to four men, stented 2 fms., at 41. 10s, per fathom; the lode full 3 ft. wide, worth 6 cwts. of lead per fathom. Who stopes in the back of this level (No. 1) to four men, at 11. 5s, per fathom, when the control of the stopes in the back of the stopes of lead per fathom. No. 2 to four men, stented 10 fathoms, at 11, per fathom worth 6 cwts. of lead per fathom. No. 2 to four men, stented 10 fathoms, at 11, per fathom worth 6 cwts. of lead per fathom. The shaftmen are still engaged about the bearer and elstern at the 62, so as to sink the shaft; setting on tribute and pitches much the same.—Harris's Shaft: To rise in the back of the 65; south lode poor, but we expect to meet with the shoot of ore that we had north of the rise in Hocking's stope, stented 3 fathoms, at 21, per fathom; the lode is worth 4 cwts. of lead per fathom.—Ward's Shaft: We are down to the 90, and shall commence to elser and secure the same at one; so far as we can see and have gone we find good stones of lead fallen down from the backs of these levels. To drive south at the 75 to four men, stent 3 fathoms.—a very kindly lode, and fully expect to see a change for the better shortly; producing saving work at present price, 31, 10s, per fathom. We have also a rise g

and it now works satisfactorily. At Little's snart we are pushing on the sun-ing as fast as possible.

WEST BASSET.—G. Lightly, June 8: In the rise in the back of the 164 east the lode is worth 1 ton of ore per fathom. In the 164 west the lode is worth 1½ ton of ore per fathom. In the 124 west the lode is worth 3 tons of ore per fathom. In the 124, east and west of Perry's cross-out, the lode continues worth 161, per fathom for tin. In the 114 west, on the caunter, the lode is worth 71, per fathom for tin. In the 75, west of Handley's, the lode is worth 71, per fathom for tin. In the winze in the bottom of the 75 the lode is worth 71, per fathom for tin.

for tin. In the winze in the bottom of the 75 the lode is worth in persistion for tin.

WEST CARADON.—W. Johns, N. Richards, June 7: Clymo's lode, in the 55, west of Marina's, is very regular, worth ½ ton per fathom of rich quality ore. The 42, west of cross-cut, on Alien's lode, is worth 2½ tons per fathom. The 42 cross-cut sonth is presenting a very desirable appearance towards Jope's lode. We are making good speed in driving the 55 fm. level cross-cut, north of Marina's shaft, and as well the 55, south of winze; when these two points are holed we shall then be in a position to open out at this level (the 55), on Alien's, in a good lode of ore. The stopes are much the same. No. 1, 2½ tons per fathom.

WEST JEWELL.—J. Mayne, June 9: We are still getting on very well in

then be in a position to open out at this level (the 55), on Allen's, in a good lode of ore. The stopes are much the same. No. 1, 2½ tons per fathom.

WEST JEWELL.—J. Mayne, June 9: We are still getting on very well in clearing and securing Greene's engine-shaft, and have set to nine men 10 fms., at 41. per fathom. The masons are building the engine-house with all possible dispatch. In Sir Frederick's shaft we set to nine men 2 fms., at 111. los, per fathom, to be carried 5 ft, long and 6 ft, wide; there is no alteration in this shaft since last week. We are driving the 17 fm. level, west of Freeman's shaft, by six men, at 41, per fathom, lode worth 141, per fathom; in about a fortlight we shall resume the sinking of the shaft, where the lode is worth 104, per fin on Thursday last we sold 47 tons of tinstuff, which realised 3161, 5s., worth on an average 61, 14s. 8d. per ton, and have about 1001, worth more on the floors. Our pay and setting went off satisfactorily, and we also set ten pitches.

WEST MARIA AND FORTESCUE CONSOLS.—W. Skewis, J. Donnal, June 9: West Maria Lode: The lode in Willesford's shaft, below the 71, is 2½ to 3 feet wide, yielding good stones of ore. The lode in the 71 cast 15 ft. wide, worth 301, per fathom, with prospects for a greater improvement. In the 71 west a little of the north part of the lode has been taken down, yielding stones of ore. The lode in the 60 enax is 4 feet wide, worth 351, per fathom, and likely to improve. A part of the lode is being carried in the 60 winze, in bottom of this level, from 3 to 4 feet wide, worth 501, per fathom. The stopes in back of the 60 are without change, still looking well. No lode taken down in the 60 west of Maria engine-shaft, or in the 50 enact of Willesford's shaft.

WEST TANKERVILLE.—Arthur Waters, June 9: The engine-shaft on California main lode. We shall get good returns from this ground when the new shaft shall be down to adit.

WEST TANKERVILE.—June 7: South Lode: The ground in Taylor's engine-shaft on California main lode. We shall g

California main iede. We shall get good returns from this ground when the new shat shall be down to add.

WEST TOLGUS.—June 7: South Lode: The ground in Taylor's engine-shaft is favourable for sinking. In Richards's engine-shaft, sinking under the 22, the ground is much the same for sinking as last reported. The lode in the 105, east of Taylor's, is 4 ft. wide, producing 1½ ton por fathom. In the 105 west the lode is 3½ ft. wide, producing 1½ ton por fathom, worth 22, per fathom. In the 95 cast the lode is 2½ ft. wide, unproducive. In the 5% west the lode is 2 ft. wide, poor. The lode in the 65 fm. level is 2 ft. wide, yielding 2 tons of ore per fathom. Two stopes in the back of the 105 west are worth 3½ tons per fathom on an average, and one stope in the back of the 65 fm. level cast is yielding 4 tons of ore per fathom.

WIST WHEAL TREMAYNE.—S. Roberts, June 7: There has been an improvement in the 20 west in both size and nature of the lode and ground, the lode being composed more of prian, copper, and ore, and the ground congenial for copper.

ing up the sides of the open cutting at the mouth of the adit level. During the past week we have interaceted another branch in the adit level, composed chiefly of spar and arsenical mundic; the ground in the end is not quite so favourable for driving.

WHEAL FRIENDSHIP.—June 6: Bennett's Lode: No change in the 170 fm. level, west of the main cross-course. In the 180, west of Whitburn's cross-cut, the lode is 1½ ft. wide, unproductive. In the winze under the 180 we have taken down the south part of the lode, and also made the winze 12 ft. long down to the present bottom, and resumed the sluking on Saturday last; the lode is 3 ft. wide, worth from 7 to 8 tons of ore per fathom for the length of the winze (12 ft.) Two stopes in the bottom of the 160 will yield 1½ ton per fathom each. One stope in the bott of this level yields 1½ to 1½ ton per fathom each. One stope in the back of this level yields 1½ to 1½ to nper fathom each. One stope in the back of this level yields 1½ to 1½ to nper fathom. No change in the 80 fm. level cross-cut, south of Curtis's shaft, in the Glebe.

WHEAL GERNVILLE.—G. R. Odgers, W. Bennetts, June 9: The men are making good progress with the 100 east towards the north shaft; the lode is 2½ to 3 feet wide, and worth 81, to 101, per fathom. The lode in the 90 east is worth 121, per fathom. The lode in the 60 east is worth 121, per fathom.—New Lode: The men are now engaged taking down the lode in the 80 east, which so far as we have seen is worth 281, to 301, per fathom. We hope to further advise you on Saturday.

WHEAL KITY (St. Agnes).—Wm. Polkinghorn, S. Davey, June 4: New Shaft, Pryor's Lode: In this shaft, shiking below the 166 fm. level, or fathom. In the 106 fm. level, or fathom, in the 94 fm. level, or fathom in the 101 min the 101 min the 101 min the 102 min level, driving east of shaft, the lode is worth for the 101, per fathom. The lode in the winze sinking below the 94 fm. level, driving east of shaft, the lode is worth for the 101, per fathom in the 94 fm. level, driving east of

the new lode.

WHEAL SPARNON.—Wm. Tregay, June 4: In the adit, driving east, on the north lode, the lode produces stones of tin and gossan; the ground is favourable for driving. In the deep adit, in the eastern part of the mine, there has been a lode intersected in the cross-cut 2½ ft. wide, composed of quartz, capel, and stones of tin.

been a lode intersected in the cross-cut 2½ ft. wide, composed of quartz, capel, and stones of th.

WHEAL UNY.—Wm. Rich, Mathew Rogers, S. Coade, jun., June 4: Good progress is being made in sinking Hind's engine-shaft from surface, and the sump-shaft below the 150. W have holed the rise in back of the 130 to Goodinge's shaft, which has well ventilated the 130: we shall soon have the shaft made complete for hauling at this level, when we intend to urge on the 130 end cast. The ground in the 150 cast is easier, but we have not yet intersected the cross-course; the lode is worth 15t, per fun. Two stopes in the back of this level are each worth 15t, per fathom. The 150 fathom level end west is worth 12t, per fathom with 15t, per fathom this level, have been mostly upproductive. The 150 fathom level end west mostly upproductive. The 150 fathom level east is worth 8t, per fathom. We have intersected another part of the lode in the 130 cross-cui north, which is urged on. The 150 cast of Goodinge's, is worth 8t, per fun. The lode in the 110 cast maintains its size and value; in the meantime the cross-cui selenged in the standard of the lode in the 150 cross-time to the lode in the 150 cross-time to the cast of Goodinge's, is worth 8t, per fun.

FOREIGN MINES.

Ablished in Chontales.

PESTARENA UNITED (Gold).—Telegram: Produce for May, 677 ozs.

gold from 864 tons of ore, 25 working days. PONTGIBAUD.—W. H. Rickard, June 1: Roure: The 80 metre level, WEST TOLGUS.—June 7: South Lode: The ground in Taylor's engine-shaft, anking under the 22 the ground is much the same for sinking as last reported. The lode in the 105 east of Taylors, is 4 ft. wide, producing 1½ for per fathom. But he 105 west the lode is 3½ ft. wide, producing 1½ for per fathom, wor 125 west the lode is 3½ ft. wide, unproductive. In the 55 west the lode is 3½ ft. wide, unproductive. In the 55 west the lode is 3½ ft. wide, unproductive. In the 55 west the lode is 3½ ft. wide, unproductive. In the 55 west the lode is 2½ ft. wide, unproductive. In the 55 west the lode is 2½ ft. wide, unproductive. In the 55 west the lode is 2½ ft. wide, unproductive. The stope sor the lode in the 65 ft. west are worth 55 tons of ore per fathom. The stope sort in the back of the 55 m. level is 2 ft. wide, yielding 2 tons of ore per fathom. The stope sort in the back of the 55 m. level is 3 ft. wide, yielding 2 tons of ore per fathom. The stope sort in the 50 west in both size and nature of the lode and ground, the lode in the 164 size and nature of the lode and ground, the lode being composed more of prian, copper, and ore, and the ground congenial for copper.

WHSAI WHSAI TREMAYNE.—S. Roberts, June 7: There has been an improvement in the 20 west in both size and nature of the lode and ground, the completed this week, when the sinking of the engine-shaft will be rosumed with all spects. The lode in the 164, east of shaft, is worth 201, per fathom. The shallow level, north and sonth of No. 1 rise, yields a little good saving work; the same level, south of the devel south, on Virginie's lode, yields a little good saving work; the same level, the lovel south, on Virginie's lode, yields a little good saving work; the same level, the lovel south, on Virginie's lode, yields a little good saving work; the same level, on the same leve cleared, we shall push on with all possible dispatch the sinking of the new shaft, which has already attained the depth of 11 metres from surface, and will be continued to the necessary depth for a 20 metre level being attacking the lode; this piece of work will probably require from six to eight months. We have also sunk a surface trial shaft to the south of these workings, near the Moulin de la Butte, to prove a kindly-looking lode at that point; it is down 5 metres; the lode is sported with lead ore.—Labrugère: At La Planche we have cleared and repaired the deep adic tross-cut, and driven 2 metres towards the lode, in stiff such size of the continued of the

[For remainder of Foreign Mines, see to-day's Supplement.]

GOVERNOE AND COMPANY OF COPPER MINERS IN ENGLAND.—
The detailed report of the proceedings of the annual Court of proprietors appears elsewhere. The abstract which was published in the columns of the Mining Journal last week sufficiently indicated the desire of the Governor (Sir Macdonald Stephenson), and of the Court of Assistants generally, to effect such modifications in the existing arrangements as to hold out a fair prospect of re-establishing the prosperity of this most important undertaking. That the details of such modifications should be carried out by the Court of Assistants is unquestionably the most politic course to pursue, for such matters not only fall within the especial province of an executive body thus constituted, but certainly no newly-formed committee could possibly possess the knowledge necessary to guide them in determining the amendments most likely to conduce to the desired end. The Court of Assistants has no purpose to serve other than the promotion of the best interests of their constituents, and none are better able to decide upon the most effective measures to be adopted. It is for this reason that the proprietors have acted wisely in directing the Court to decide upon some emendatory scheme, based upon the recommendations lately put forth in the joint reports. The Governor very properly says that "the real and only question is—what is the best and most effectual remedy;" and it is equally true that the soundest and most matured judgment will have to be exercised, otherwise "modifications in existing arrangements" may result in still further disastrous consequences. That the task is pregnant GOVERNOR AND COMPANY OF COPPER MINERS IN ENGLAND, the soundest and most matured judgment will have to be exercised, otherwise "modifications in existing arrangements" may result in still further disastrous consequences. That the task is pregnant with difficulty is clear, and one also involving no small amount of labour, but there seem solid grounds for believing that the Governor speaks advisedly when he says "if energetically pursued, there is reason to expect favourable results." [The meeting is very fully reported in the Supplement to this week's Journal.]

Van.—It must have become evident from the extraordinarily rapid manner in which this property has unfolded its riches that it had far outgrown its originally anticipated proportions, and that the capital provided for the laying out of the works was inadequate to the necessities of the mine. The result of the development during the past twelve months is unparalleled in the history of mining. An independent company has been formed to construct a railway through the past twelve months is unparalleled in the history of mining. An independent company has been formed to construct a railway through the Caersws Valley, a distance of about six miles, connecting the mines with the main Cambrian system. It is understood to be the intention of the directors of the Van Mines to convene a special meeting to submit a proposal to increase the capital by the issue of 3000 new shares, to be allotted pro rata among the present shareholders, at the nominal premium of 24, 10s.—that is, at 61, 15s. per share. The amount thus raised will be sufficient to meet all expensives. whole of the increasing profits to be distributed as dividends. This step has been rendered the more necessary by the discoveries made in the western portion of the property, where an entirely new mine is being opened out. It may be added that something like 13,000%. has been expended out of revenue which should have been paid out of capital.

GREAT ROYALTON .- As will be seen from the agent's report, in GREAT ROYALTON.—As will be seen from the agent's report, in another column, the erection of the 26-in. steam-engine is nearly completed, together with the dressing-floors, and 36 heads of stamps. The engine, it is expected, will be started this month, when the agent reports he can at once make regular monthly sales of tin at large profits to the adventurers. The engine-shaft will immediately be sunk 10 fathoms deeper, and then driving commenced. This will lay open immense quantities of rich tin ground. The lodes are increasing in value in depth, the present bottom of the mine being the richest yet seen.

KING ABTHUR SILVER-LEAD MINE (Limited).-By an advertise

ment in another column it will be seen that the application list for shares in this undertaking will close on Tuesday, the 14th inst.

SOUTH ST. JUST TIN MINE.—On Monday this mine was resumed in good earnest, under the management of Mr. William Angwin and Capt, William Williams, late of the Botallack Mine. Complete machinery, in perfect condition, being on the property, the mere turning the water on to the 30-feet wheel was all that was necessary to start the mine. A few days, it is stated is all that will be required to to start the mine. A few days, it is stated, is all that will be required to place the mine in a perfect condition for working, when a full staff of men will be engaged. The present prices for tin will, it is considered, render this mine a remunerative property, especially as the tin produced is of the best quality found in the county of Cornwall.

PACIFIC.—The reports appear in another column, which amply confirm the news received some few days ago by the company as to improvements in these mines. After the many spurious telegrams to hand lately, it is satisfactory to find that those received by this comto hand lately, it is satisfactory to find that those received by this company have been so fully authenticated, not only from official sources, but also by letters receive by the last Californian mail, from parties utterly unconnected with the company, in which it is stated that at Union Hill, during "the past fortnight, an important improvement has set in, first appearing on the plates, then free gold in the rock, and on Saturday, the 14th, the change was fully developed by the finding a very fine specimen, worth \$50. The western stopes are turning out well, also the eastern part, and that for the month of May a very considerable profit would be made." At Lander Hill, the "400 ft. level had much improved, the lode producing silver ore, worth \$250 to \$300 per ton, with every appearance of further improvement, and that good progress was being made in the cross-cut at the 550, to intersect the lode upon which this important discovery has been made nearly 50 fms. deeper; and also to cut other lodes, being profitably worked on, to the west of the company's mines."

THE MINERAL RESOURCES OF THE ARGENTINE REPUBLIC.—

THE MINERAL RESOURCES OF THE ARGENTINE REPUBLIC.-Upon several previous occasions we have noticed the admirable accounts of the mineral resources of the Argentine Republic, which have been furnished us by Major F. J. Rickard, F.G.S., the Government Inspector-General of Mines, and Messrs, Longman, Green, and ment Inspector-General of Mines, and Messrs. Longman, Green, and Co. have now issued a handsome volume by the same author. The volume contains a translation of the report which Major Rickard has presented to the authorities as the result of his systematic inspection of the several districts of the Republic; and, when it is stated that Mr. Rickard is by birth a Cornishman, and has had considerable practical experience in mining, the value of his statements and opinions will be duly appreciated. The book contains an abundance of valuable information, which will be more fully noticed. DIAMONDS FROM THE CAPE OF GOOD HOPE.—The diamond known as the "Star of South Africa." the consignment of which

known as the "Star of South Africa," the consignment of which from the Cape of Good Hope to Messrs. Mosenthal and Co. was reported in the Times of July 8, having been cut, has proved a matchless stone, of most resplendent quality, of about 186 grains weight. It is understood to have been sold on behalf of the consignees by the brokers, Messrs. Ochs Brothers, of London and Paris, to Messrs. Hunt and Roskell, of New Bond-street.

TELEGRAPHIC COMMUNICATION .- It is understood that applica-TELEGRAPHIC COMMUNICATION.—It is understood that applica-tion has been made for letters patent for constructing a cylindrical iron kerb for reception, repairing, and maintaining telegraph wires, to be of the same external form and size as the stone kerb now in use. Should this, in the opinion of practical men, be available, it must be a means of extending telegraphic communication, and prove of great public utility and economy, by preventing the constant nesity of taking up the roadways and pavements

After an absence of five months on a long and tedious journey, and, moreover, not without its difficulties, privations, and even dangers in exmining some mining properties in Arisona and California, Mr. JEHU HITCHINS valis himself of the pleasurable opportunity to announce to the Editor of the Mining Journal, with his best compliments, his return to his office and active atter, and hopes long to continue his endeavours to merit that confidence which his heart has been his greatest reward. dutier, and hopes long to continue his end which hisherto has been his greatest reward,

With this week's Journal a SUPPLEMENTAL SHEET is given, which contains: Prof. Smyth's Lecture at the Royal School of Mines—The Governor and Company of Copper Miners meeting—Original Correspondence: Description of the Rock-Salt Mines and Salt Manufacture in Cheshire; Collieries in the Ashton-under-Lyne District; Iron and Coal Districts of Shropshire; Metals, and their Ores, No. IV. (E. Gledhill); Metallic Mining in the North, No. IV. (W. Gibson); Mineral and Fuel Resources of Russia, No. II.; Mining in Colorado; Australian United Mines; Mine Reports; Mining in the North Part of Montgomeryshire; Bronfloyd Mining Company (J. B. Balcombe); West Stiperstones Lead Mining Company; Pen'Allt Silver-Lead Mine—Mineral Resources of Nova Scotia; Foreign Mine Reports—Mr. J. Vivian's Improved Pumping Machinery (illustrated)—Needle Lubricator (illustrated)—Patent Matters (M. Henry), &c.

The Mining Market; Phices of Metals, Ores, &c.

METAL MARKET-LONDON, JUNE 10, 1870.

	0 0
Tough cake and tile 71 0 0 Sheathing & sheets. 75 0 0 Bolts	0 0
Sheathing & sheets. 75 0 0- Bolts 76 0 0- Nail rods 7 10 0- ,, Staffd, in London 8 5 0-9	-
Bolts 76 0 0 ,, Staffd, in London 8 5 0- 9	
, Stand, in London 8 5 0- 9	
Date ; ditto 8 0 0-9	0 0
Hoops ,, ditto 8 18 0- 9	0 0
Dars , at works, 1 15 U- 8	0 0
noops ,, uitto e 2 6- 6	5 0
Sheets, single 9 15 0-11	0 0
	5 0
	0 0
Wire Bars, common ditto. 6 15 0-	-
Tubes 10d -111/d Do. mrch. Tyneor rees 6 10 0-	-
Do., ranway, in wates 7 10 0-	-
	-
Sheets 9 12 6 To arrive 9 12 6	-
SPELTER. Per ton. Pig, No. 1, in Clyde 3 0 0-3	6 0
Do. f.o.b. Type or Trees 2 9 6-	
Foreign on the spot £19 0 0-19 5 0 Do. Nos. 3.4.f.o.b. do. 2 6 6- 9	7 0
" to arrive 19 0 0-19 5 0 Railway chairs 5 10 0- 5 1	5 0
zinc. ,, spikes11 0 0-12	0 0
In sheets£23 10 0 Indian Charcoal Pigs.	
in London m ton a g a a s	0 0
QUICKSILVER (p. bottle) 7 17 0 in London, p. ton. 6 5 0-6 1	0 0
TIN. STEEL. Per to	n.
English blocks £137 0 0 Swed., in kegs(rolled)13 10 0-13	15 0
Do., bars(in bris.) 138 0 0- (hammered) 14 5 0-14	
Do., renned 141 0 0- Ditto in faggots 15 10 0-	-
Banca 155 0 0-156 0 English spring 17 0 0-92	0 0
Straits 184 0 0-134 10 0 Bugusu, spring	-
TIN-PLATES.* Per box. LEAD. Per ton.	
IC Charcoal, 1st qua. 1 6 6-1 8 0 English Pig, com 18 0 0	-
IX Ditto, 1st quality 1 12 6- 1 13 6 Ditto, LB	5 0
	5 0
IX Ditto, 2d quality., 1 12 0- 1 12 6 Ditto, sheet18 15 0	-
IC Coke	0 0
IX Ditto 1 9 0-1 9 6 Ditto, white27 0 0-30	
Canadaplates, p.ton 13 10 0-14 10 0 Ditto, patent shot 21 0 0-	
Outrade bisconibisonities to a series busconibisonities	
Dieso, at moral management of the property of	
 At the works, 1s. to 1s. 6d. per box less. 	

REMARKS.—The transactions in the Metal Market during the past week have not been of such importance as to afford scope for any lengthened remarks. There has been but little alteration to note in prices, and the demand generally has been very limited. The Indian and China markets are especially quiet. There is some demand for consumption at home and on the Continent. The Whitsuntide holidays may in some measure account for the slackness of business during the week

COPPER.—Dealers in Chili bars continue to make strengous efforts to work up the market, but as yet it is very doubtful whether more than even a temporary trifling benefit can be effected. Speculation is always more or less hazardous, but it would seem exceedingly so when founded upon mere supposition, as opposed to facts and all reasonable expectation. According to the average difference between the value of Chili bars and English tough the price of the former ought to be about 65t, Manufactured is in very limited de-

former ought to be about 65%. Manufactured is in very limited demand, especially for India, and shows at present no prospect of improvement. Charters announced to-day from Chili are 2100 tons.

Yellow Metal.—Smelters are principally occupied in the execution of orders previously contracted for, which are being gradually worked off. Present enquiry is rather slack at sellers' quotations, but a good business might be done at the concession of 4d.

IRON.—Great activity marks some branches of this trade. Iron for relives proposes continues in good demand. Other varieties

IRON.—Great activity marks some branches or this trade. From for railway purposes continues in good demand. Other varieties sympathise in the impulse which the demand for railway iron has imparted to the market, and a rise of about 10s, per ton all round has been established since the first spring orders were contracted for. Buyers of merchant bars and manufactured iron generally will, probably, not be able to supply themselves at a cheaper rate for some time to come than they can now. If briskness be the characteristic of the works in Wales and in the North of England, a return to some estimit marks the condition of these in Stoffenskirs, where these of the works in Wales and in the North of England, a return to some activity marks the condition of those in Staffordshire, where there has been dulness amounting almost to stagnation for some time past. The report from Birmingham is to the effect that, though prices are stiffening, the demand is still limited, and the improvement is only felt by second-class makers, who until lately have been compelled to submit to severe reduction in price in order to effect sales. Orders for this class of iron having come in, though not in any large quantities, have proved helpful to such producers, but not to makers of the leading brands, whose quotations remain as before, without inducing any material influx of business. Sales are principally confined to iron for shipbuilding purposes. Some demand exists for sheets and hoops, and about 3000 tons of nail-rods have been shipped to India and China during the month of May. Staffordshire pigs, in sympathy with Scotch pigs, are firm, at 75s. to 77s. 6d. for hotblast. For Scotch pig, 61s. to 61s. 2d. cash has been paid, since which the market has drooped to 59s. 9d. cash, and 60s. to 60s. 3d. one the market has drooped to 59s. 9d. cash, and 60s. to 60s. 3d. one month. The sale of Swedish iron continues dull in the London market: 9l. 10s. to 9l. 15s. is asked for ordinary Indian specifications,

but without finding ready buyers.

LEAD continues very quiet. Holders are indisposed to make further concessions, but even the low quotation of 181, for soft pig fails to attract buyers.

SPELTER without alteration. There is no recovery in the market. Sellers' price continues 191. 5s. for Silesian, with very little doing. Hard spelter is in fair demand, at limits ranging from 141. 10s. to 141. 15s., sellers quoting 5s. higher.

TIN.—The market is not quite so firm for foreign. Since our last business has been transacted up to 1351. for Straits, but the price can scarcely be quoted better than 1341. to 1341. los. Banca, in Holland, about 79 fis. to 79½ fis.

TIN-PLATES.—The demand for the States is good, but enquiry from

e East has almost ceased

THE COPPER TRADE.-Messrs. Vivian, Younger, and Bond-The better feeling noticed in our last report still continues, and in Chill barsess. It is also been paid for a parcel of best brands, 68% for good ordinary brands, as been paid for a parcel of best brands, 68% for good ordinary brands, as fit, los, for Urmeneta and Lota, and there are still buyers at these prices. Ear in the week about 400 tons of regulus were done at 13x, 6d, per unit, and another transaction has taken place since then at the same figure. There is also monquiry for English tough, and we close very firm at our quotations; fine foreign de English manufactured, however, still continue duil. The Valparalso lette delivered this morning advise charters from Chili for the fortnight ending May of about 2100 tons fine copper—840 tous in bars and ingots, and 1260 tons fit copper in regulus.

Messrs. James and Shakspeare—About 600 tons of Moonta ore of moderate percentage has been sold at 13s. 3d. for Liverpool delivery, but 500 tons rich Chillan regulus, to arrive in the same port, realised 13s. 6d. At the Swansea Ticketing, ore the produce of which was 13:1-16th per cent. went off at an average of only 12s. 63d. per unit. In bars about 700 tons reported at 67d. 10s., 68l., and 68l. 10s., according to brand; but it has been exceedingly difficult throughout the week to carry out any transactions, buyers and sellers having, as a rule, very divergent views, and the former appear to have confined their purchases to such parcels as they required for immediate and pressing wants. Even now, although quotations are fully 10s. higher than on Friday morning last, very little could be had at the nominal market prices; but, on the other hand, no important sales could be effected except at a reduction therefrom. A sale of 50 tons Waliaroc cake has been made at 72l. per ton; with that exception, however, there has been nothing doing in Australian sorts, although the values are proportionately lower than in former years, when they ranged from 8l. to 12l. per ton over Chill slab, whilst at present they are only 6l. per ton higher. Some moderate sales of English tough cake have been made during Messrs. James and Shakspeare-About 600 tons of Moonta ore of

the present week at 711. per ton, but manufactured continues very dull, our list rates.

our list rates.

TIN.—For English common there has been rather more demand, especially for export to France, and as standards for ore have been lately all vanced in Cornwall, smelters are asking full prices. A special demand spice have been made since 3rd last, of fully 300 tons, at 134s, to 135s., with usual fourteen been made since 3rd last, of fully 300 tons, at 134s, to 135s., with usual fourteen days prompt. The enquiry continues up to present moment, holders, therefore, shy of selling, except in trifling quantities, but the parties operating do not seem disposed to purchase, unless they can obtain lots of 25 to 50 tons, at the quotations. Some sales for distant arrival, and fixed prompts three months hence, have been made at about 4s, per owt, below the cash values. Banca in Holland has has risen to 79½ fits, and moderate transactions are reported here at 135s.; Billiton is somewhat neglected.

THE IRON TRADE—(Griffiths' Weekly Report),—The enquiries for hoop iron are numerous, and are likely to continue so, one contract for 1000 hoop iron are numerous, and are likely to continue so, one contract for 1000 hoose iline has been closed here this week, all one size, for the American market. The demand for sheets continues unabated, and best Staffordship bars of well-known brands are firm at list rates. We have had more than the usual average business this week in rods, and a good business has been done to a known Wolverhampton brand. The rail market is buoyant, and by rar have difficulty in getting fresh contracts placed for summer delivery. The South Staffordshier rail makers are, no doubt, full of orders, havingfreduced two contracts this week which were offered to these makers on very favorable terms. The makers of tin-plates justify compilate of the inconvenience they are subject to by the present price of block tin. As the demand for plates has not increased for late they allege that an advance on the finished article commensurate with the higher rates now paid for block would be out of the question. Hence they are compelled at present to work almost without profit.—Old Broad-street, June 10, THE IRON TRADE-(Griffiths' Weekly Report) .- The enquiries for

The MINING SHARE MARKET opened very briskly this week, and a large business was transacted in several mines at advanced prices but these were scarcely maintained at the close, when the market became comparatively inactive and flat. The shares in chief request have been Van Consols, West Maria and Fortescue, Wheal Grenville, East Grenville, Van, Tankerville, East Caradon, West Chiverton, East

came comparatively inactive and flat. The shares in chief requests have been Van Consols, West Maria and Fortescue, Wheal Grenville, have been Van Consols, West Maria and Fortescue, Wheal Grenville, East Grenville, Van, Tankerville, East Caradon, West Chiverton, East Lovell, Drake Walls, Cook's Kitchen, Great Wheal Vor, Wheal Kitty (St. Agnes), Marke Valley, and a few others.

East Lovell shares have been largely dealt in, and rose on Wednesday to 35½; on Thursday they declined to 34½, sellera, and leave off 20 to 22; this is a rise of 10½, per share in less than a month, owing to a great grown of the control of the meeting, held on Tuesday, the accounts abowed a profit of 1929½. 12s. 11d. on two months, and a debit balance to next account of 2947.1 ps. 1d.; the tin sold realised 6697. 3s.; copper, 1273½. 14s. 8d. North Treskerby, to ½; the accounts, at the meeting, showed a profit on two months of 19½. 8s. 8d., and a debit balance of 6044. 8s. 11d., without crediting the sale of ore on June 2, which realised 1247½. 1s. 7d. The general prospects of the mine continue the same as for some time past, but the fall in the standard for copper affects its financial position, and the same as for some time past, but the fall in the standard for copper affects its financial position, and the 195 is worth 1 ton per fathom; the 55 east, 5 tons of copper or per fathom. Wheal Grenville, 2½ to 2½; the new lode in the 89 east is worth 28½ to 30½, per fm; the 10½ to wards the north shift, 8½. 10s. to 10½; the 90 east, 12½; and the 60 east, 12½, per fathom, Prince of Wales, 15a. to 17s.; the 77 east is worth 10½, per fathom, and the 77 west 6½, and a very promising end. East Caradon, 4½ to 3½; the caunter lode is poor. Child's lode is worth in the aggregate 33½, per fathom; Secombe's is poor. Cara Gamborne, 1½ to 1½; to 1½; of 13½, 15a; to 13½; for east in worth 10½, per fathom, Britan of the order of the same past of the same p

There has been a fair amount of business transacted on the Stock Exchange in Mining Shares during the week. The chief features have been the further development of the lode in the cross-cut at Van, where they are cutting into an almost solid course of lead in the 45 fathom level, and the same remark applies to the cross-cut in the 30 fathom level, 54 fathoms west of engine-shaft. The sampling on Monday last was 350 tons of lead ore. All other parts being operated on continue very rich. A company has been formed to make a railway from the mine to the main line of the Cambrian system. Advices have been received from the Pacific Company's mines at Lander Hill and Union Hill, confirming the announcements lately received by telegrams. At the former the ore, as broken, is worth from 50L, to 60L, per ton, and good progress is being made in the cross-cut to intersect this same lode 50 fms. deeper on the underlie. From Sweetland Creek satisfactory advices have been received. These important letters have strengthened the market, and considerable business has been transacted in the shares of these respective companies. Application has been made for a special settlement, and a quotation in the Official List of the Stock Exchange, for the Sweetland Creek Company, and it may be expected to be granted in the course of a few days. Tankerville shares have been largely dealt in, and the mine has been favourably reported on. Application has also been made for a special settlement in these shares. Great Laxey and Van, where they are cutting into an almost solid course of lead in and the mine has been favourably reported on. Application has also been made for a special settlement in these shares. Great Laxy and West Chiverton have commanded a fair share of attention. Don Pedro shares have improved, and Chontales shares have also been enquired for during the week. The following are the latest Stock Exchange quotations:—Assheton, 7 to 7½; Tan-yr-Allt, 4½ to 4½; Yan Consols, 4½ to 4½; West Chiverton, 5 to 20; Chiverton, 2½ to 2½; Chiverton Moor, 4½ to 5½; West Chiverton, 54½ to 55½: East Caradon, 4½ to 4½; West Caradon, 15s, to 20s.; Great Laxey, 18½ to 19½; Great Vor, 10 to 11; East Lovell, 33½ to 34; Marke Valley, 7 to 7½; Prince of Wales, 15s, to 17s.; Van, 78 to 80; Almada, par to ½ prem.; Anglo-Argentine, par to ½ prem.; Anglo-Brazilian, ½ dis. to par; General Brazilian, par to ½ prem.; Cape Copper, 17 to 18; Capula (Silver), 1 to 1½; Don Pedro, 2½ to 2½ prem.; Eclipse, par to ½ prem.; Frontino and Bolivin, 18s. to 20s.; Chontales, 1½ to 1½; Pacific, 8½ to 9; Pestarena, 19s. to 21s.; Rossa Grande, ¾ to ½ dis.; St. John del Rey, 21 to 22; Taquaril, 3-16ths to 5-16ths prem.; Yudanamutana, ¾ to ½.

COAL MARKET.—The fresh arrivals this week amount to 108 ships. The demand for household coal has continued steady, but prices quote a reduction of from 3d, to 6d, per ton. Hartley's have been inactive, and prices declined 6d. Hetton Wallsend, 17s.; Haswell Wallsend, 16s. 6d.; Stewart's Wallsend, 15s. 6d.; Eden Main, 15s.; At the realising standar average 34 cwts Date. May 10. June 7. Compa 7s. 6d., on Jun At the direction of 2011 dividend credit of the variance as

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Kelloe Wallsend, 14s. 9d.; New Belmont Wallsend, 14s. 6d.; Framwellgate Wallsend, 14s. 6d. Unsold, 17 ships; 25 ships at sea.

At the Swansea Ticketing, on Tuesday, 2509 tons of ore were sold, realising 20,5551. 11s. The particulars of the sale were—Average standard for 9 per cent. produce, 851. 19s. 6d.; average produce, 13; average price per ton, 84. 3s. 10d.; quantity of fine copper, 326 tons average price per ton, 84. 3s. 10d.; quantity of fine copper, 326 tons 25 evts. The following are the particulars of the two last sales:—Date. Tons. Standard. Produce. Priceperton. Per unit. Ore copper. May 10. 2934 ... £83 7 0 ... 18 ... £10 5 8 ... 129. 9d. ... £63 15 0 for 13 ... 8 3 10 ... 12 7 ... 62 18 0 Compared with the last sale, the decline has been in the standard color and in the orice per ton of ore about 1s. There will be no sale 6d., and in the price per ton of ore about 1s. There will be no sale

At the Foxdale (Isle of Man) Mining Company meeting, on June 4, and directors declared their usual quarterly dividend, of 10s. per share.

At Wheal Mary Ann meeting, on Tuesday (Mr. James Cock in the hair), the accounts for the three months ending March showed a credit baland of 2011. 6s. 5d. The profit on the three months working was 5191. 5s. 11d. A letidend of 5121. (10s. per share) was declared, and 1499. 6s. 5s. carried to the redit of next account. Capts. Clymo, Harris, Stevens, and Skeat reported upon evarious points of operation. The stopes and pitches are producing much the me as for some time past.

of 2011. 6s. 201. The probability of the dealer of and 1590. 6s. 5s. carried to the dreided of 512. (10s. pc also over the cardio of next account. Cats. Clymo, Harris, Stevens, and Sicka reported upon the various points of operation. The stopes and pitches are producing much the same as for some time past.

At the Bronfloyd Mine extraordinary general meeting, on Tuesday, at the Guildhall Hotel, the special resolutions which were passed at a like meeting held on May 23 (particulars of which have already appeared in the Journal) were confirmed by the voto of 53 to 1, 7261 shares belong represented at the meeting. The mine was reported to be much improved the confirmed by the voto of 53 to 1, 7261 shares belong represented at the meeting. The mine was reported to be much improved to the relation of the confirmed by the vote of 55 to 1, 7261 shares belong represented at the meeting. The mine was reported to be much improved to the lowest level of the most of the confirmed by the lost of the

the mine. Details in another column.

At the Vicille Montagne Company meeting, on April 30, the accounts for the twelve months ending December, 1869, showed a net profit of 124,8461., which was appropriated thus:—To reserve fund, 21,1691.; dividend to share-holders (16s, per share), 90,0061.; management, 18,5661; and earried forward to next account, 1217. The position of the undertaking was considered to be highly

The Bank of England return for the week ending on We dnesday evening showed in the ISSUE DEPARTMENT an increase in the "notes issued" of 157,6401, which is represented by a corresponding increase in the "coin and baillon" on the other inde of the account. In the BANKING DEPARTMENT there was shown a decrease in the "other deposits" of 242,0791.; In the "seven day and other bills" of 19,1311.; and in the "rest" of 29971.; together, 264,2071.; and an increase in the "public deposits" of 49,7851.—385,5781. On the asset side of the account there was an increase in the "Government securities" of 42,5741.; and in the "other securities" of 43,817.—37,3911.; leaving an increase in the total reserve of 368,1871.

A petition for winding-up the Vallongo Slate and Slab Quarry mpany (Limited) is to be heard before Vice-Chancellor Malins, on June 24.

THE ABOVE ENTERPRISE, having been before the public for some time, has been WELL RECEIVED in SOUTH WALES and the WEST OF ENGLAND, and favourably commented upon by the London and Previncial press.

Provincial press.

The promoters require COPIES OF PAPERS from the 22d October, 1869, con taining Reports of Meetings, Leading Articles, Notices, &c., having reference to the scheme.
Address to "The Promoters, Great Western Maritime Canal," care of Mr. G.
Street, 30, Cornhill, London, E.C.

National Provincial Bank of England.

Bishopsgate-street, corner of Threadneedle-street,

Bishopsgate-street, corner of Threadneedle-street,

London, E.C., June 7th, 1870.

The Directors of the National Provincial Bank of England hereby give notice
that a HALF-YEARLY DIVIDEND at the rate of Eight PER CENT, PER
ANNUM, and a HALF-YEARLY BONUS of SEVEN PER CENT, will be
PAYABLE on the company's stock on and after the 11th day of July next,
when the dividend and bonus warrants may be obtained at the company's office,
No. 112, Bishopsgate-street (corner of Threadneedle-street), or at the different
branches.

Transfer Books will be closed on and after Saturday, the 11th day of June

branches,
The Transfer Books will be closed on any and the Transfer Books will be closed on any and the dividend and bonus become payable.
By order of the Court of Directors,
E. ATKINSON, Joint General
W. HOLT, Joint General MPERIAL OTTOMAN MINING COMPANY (LIMITED).—
Notice is hereby given that, in compliance with the requirements of the
Articles of Association, a GENERAL MEETING of the company will be HELD
at the offices, 46, Moorgate-street, on THURSDAY, the 28d day of June instant,
at Twelve of clock

at Twelve o'clock.

The Transfer Books will be closed from the 13th to the 24th instant.

By order of the Board,

46, Moorgate-street, 9th June, 1870.

Holders of Share Warrants must deposit them at the offices of the company seven days previous to the date of the meeting, in order to be qualified to attendand vote thereat.

TAVARONE MINING COMPANY, ITALY.—FOR SALE, TWENTY SHARES in this highly-recommended Mine, at 5s. discount. Address, "Y. D.," MINING JOURNAL Office, 26, Fleet-street, London, K.C. TO CAPITALISTS, AND OTHERS.

TO CAPITALISTS, AND OTHERS.

COAL AND IRONSTONE,—A valuable FREEHOLD and current-going COLLIERY and IRONSTONE WORKS in NORTH STAFFORDSHIRE TO BE LET on royalty, with option of purchase, or an active practical MANAGER, with adequate capital for the erection of blast-furnaces, would be treated with, on advantageous terms of PARTNERSHIP. The machinery, plant, and railways to be taken at a valuation, or a rental paid. Further information and particulars may be obtained on application to Messrs. SAINDERS and LEWIS, Estate Agents, Surveyors, Valuers, &c., Full-tree, Derby, and Waterloo-chambers. Temple-row West. Birmingbam.

GEAR'S MINE, ST. HILARY.

GEAR'S MINE, ST. HILARY.

THE PROPRIETORS of the above MINE, being also the landowners, and having made a DISCOVERY OF TIN, which is only worked to the depth of a few fathoms below surface, where there is now a good lode in the bottom and ends, are open to TREAT with a MINING COMPANY to WORK the same, which will be granted at 1-18th royalty. More than \$100 worth of the has been sold from here by miners within a very short time, and it also shows good indications for the production of copper. Every facility will be shown to mining agents, or others, for the inspection f the mine, by applying to the proprietors, Gear's Mine, Goldsithney, Marazion, Cornwall,—Dated June 7, 1870.

Contracts for Mine Materials, For WEST CHIVERTON, and other Mines, near TRURO, CORNWALL.

For WEST CHIVERTON, and other Mines, near TRURO, CORNWALL.

TENDERS are invited for the SUPPLY of MATERIALS as under, for twelve months—viz., from the 1st day of July next to the 30th of June, 1871:—
About SIX THOUSAND TONS of COAL.
CANDLES, TALLOW, ANTI-FRICTION GREASE, RAPE and OLIVE OIL. IRON, STEEL, CRUSHER ROLLS, LEATHER, WHITE, RED, and SAEET LEAD, RAILS of every description, &c.
For particulars, apply to the Manager, Capt. JULEFF, Garras Wharf, Truro; or to Mr. RICHARD CLOGG, Parser, Liskcard, to whom Tenders should be addressed "Tender for instant, and not later than One o'clock P.M.
Dated Liskcard, June 8, 1870.

Borough of St. Helen's Water Works.

TO IRON FOUNDERS.

THE CORPORATION of ST. HELEN'S are PREPARED to RECEIVE TENDERS for the SUPPLY of about THREE THOUSAND EIGHT HUNDRED AND FORTY YARDS of 15 inch CAST-IRON PIPES. For specification and form of tender apply to Mr. THOS. S. STOOKE, C.E., Whiston Pumping Station, near Prescot, on and after the 3rd of June next. Sealed tenders, endorsed "Tender for Water Pipes," to be sent in, addressed to the Town Clerk's Office, St. Helen's, not later than Tuesday, the 14th day of June, 1870.

une, 1870.
The Corporation do not piedge themselves to accept the lowest or any other ender.
By order.
HAROLD PILKINGTON, Town Clerk.
Hardshaw-street, St. Helen's, 25th May, 1870.

M INING ENGINEER WANTED, with capital and first-class references, to reside abroad, and act as PARTNER and AGENT for a party in London. Capital required, from £2000 to £5000. Address, "H. R.," care of housekeeper, 1, Gresham-buildings, E.C.

BRITISH SPELTER AGENCY WANTED.

A N OLD and RESPECTABLE FIRM in the METAL TRADE
would be happy to treat with some WORKS for the SALE of their
SPELTER in one of the PRINCIPAL TOWNS in the MIDLAND COUNTIES,
where the consumption of spelter is very large.
Apply to "P. and C.," MINING JOURNAL Office, 26, Fleet-street, London, E.C.

A GENTLEMAN of extensive experience in Mines and Mining in Spain and Italy, and speaking Spainsh fluently, is OPEN to an ENGREMENT either to EXAMINE and REPORT upon MINES in THOSE COUNTRIES, or to SUPERINTEND the WORKING of QUICKSILVER, COPPER, LEAD, or SILVER MINES, and can advise intending purchasers or shareholders as to the best localities for profitable investment. Highest references given.

Address, "T.T.," Lombard Exchange, Lombard as the control of the contro

COLLIERIES.

A Gentleman of many years' experience in the COAL TRADE, and who is thoroughly acquainted with the SOUTH-WESTERN RAIL-Communications to be addressed Messrs. FAWCETT, HORNE, and HUNTER, 6, Lincoln's Inn-fields.

PARTNERSHIP-COAL TRADE.

A COLLIERY OWNER, having an opportunity of extending the workable area of Coal Land, DESIRES ADDITIONAL CAPITAL TO CARRY OUT HIS VIEWS.

Apply to JOSEPH SIMPSON, Public Accountant, 17, Pavement, Finsbury, London, E.C.

TO INVESTORS.

PREFERENCE SHARES in a very desirable COLLIERY, situate in the heart of the COAL DISTRICTS of SOUTH WALES, to yield a SEVEN PER CENT. PREFERENCE DIVIDEND, with a further estimated DIVIDEND of from SEVEN to FOURTEEN PER CENT.
Full particulars may be obtained of Messrs. SHALPORD and ROBINSON, C.E., No. 7, Westminster-chambers, Westminster or of Messrs. FEARON, CLABON, and FEARON, Solicitors, 21, Great George-street, Westminster.

WATSALL COLLIERY, CLEE HILL, NEAR LUDLOW,
TO BE LET, BY PRIVATE CONTRACT.
For particulars and to treat, apply to Messrs. URWICK and MARSTON, solicitors, Ludlow.

TO CAPITALISTS.

WANTED, a PARTNER, with £1700, to DEVELOPE a COLLIERY on the CELEBRATED LLANTWIT SEAMS OF COAL. For full particulars, apply to Mr. THOMAS DAVIES, Mining Engineer, Ponty-orldd, Glamorgaushire.

WANTED, a PARTNER, in a small established SPELTER WORKS, situate in a most advantageous and economical position. A person with energy and a small capital required.

Apply, in first instance, to "D.," Post Office, Swansca.

WANTED, by an old-established firm of Metal Brokers in Liverpool, an AGENCY to REPRESENT in that town a first-class STAFFORDSHIRE OF MIDDLESBOROUGH IRONMASTER. Unexceptionable eferences can be given.
Address, "Metal," care of Lee and Nightingale, Liverpool.

SOUTH AMERICA.

AN INTEREST in a VALUABLE and EXTENSIVE MINING PROPERTY FOR SALE, to which a railway is now being completed. For particular, address "G. and R.," care of Mr. B. Fothergill, C.E., 15, 2000ge-street, Mansion House, London.

A RICH QUICKSILVER MINE in HUNGARY FOR SALE, or TO BE WORKED on ROYALTY.
For particulars, apply to H. BERMAN, Königsgasse, 9, Pc.t, Hungary.

MINING SETTS IN DEVON.

TIN, COPPER, AND LEAD, in the Manor of SHEEPSTOR, and LANDS in TAVISTOCK, WHITCHURCH, PETER TAVY, LAMER. TON, and LIDFORD. Water power. Terms, 21 years, renewable. Dues, 1-30th for Tin, 1-20th for Copper and Lead, reduced to 1-60th after a moderate outlay, until mines pay cost. to Mr. CATER, Solicitor, Plymouth.—Feb. 19, 1870.

CARNARVONSHIRE.

THE ADVERTISER has an EXTENSIVE MINING SETT, Through which are running several valuable lodes of LEAD and COPPER, also a considerable deposit of MANGANESE. It abuts upon the richest mines in North Wales, and merely requires a small capital to develope it. The dues are very low, and the situation most favourable for working. He is not a mining speculator, and would be glad to SHARE the GRANT with a CAPITALIST, or to DISPOSE of his INTEREST in it, having full power to do other from his landlord.

For particulars apply, by letter to 44 Mer. ndlord. iculars apply, by letter, to "M.B.," Post Office, Penygroes, near

TO INVESTORS.

TO BE DISPOSED OF, a FEW SHARES in a FIRST-CLASS DIVIDEND-PAYING UNDERTAKING. Will be sold to pay not less than 17 per cent. per annum.
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NOTICE.

Each unstamped copy of the Journal of this day, transmitted by Post, must have an extra stamp affixed. This is requisite, in consequence of the Double Supplement carrying the weight of the paper beyond the Post Office allowance. For the conve-nience of those subscribers who have stamped copies, we have had a higher-priced stamp impressed, to allow of their papers passing through the Post without extra cost.

	LEAI	0 0	RE	s.		-	
Date. Mines.	Tons.		rice		to	n.	Purchasers.
June 3-Minera	100		£12				A. Eyton.
- ditto	90		11	18	0		ditto
- ditto	33		12	5	0		Panther Lead Co.
- ditto	100		12	6	6		A. Eyton.
- ditto	54		12	6	6		ditto
- ditto	311/2		12	0	0		ditto
- ditto	311/2		12	0	0		Panther Lead Co.
-Great Laxey	100		22	1	0		Sims, Willyams, & Co.
6-Glogfawr	40		13	0	6		Weston & Collingborn
-Frongoch	120		11	6	0		Sims, Willyams, & Co.
-Graiggoch	20		11	6	U		ditto
-East Darren	80		16	1	0		Panther Lead Co.
-Goginan	31		16	2	0		ditto
-Cwm Erfin	35		15				ditto
-Bwadrain Consols	30		11	5	6		Weston & Collingborn
9-Talargoch	261/2		12	3	6		Walker, Parker, & Co.
- ditto	145		13	5	U		ditto
-Trelogan	40		12	6	6		ditto
-Holywell Level .	**** 271/2		11	5			ditto
- ditto .	271/2		11	5	0		A. Eyton.
-Glan Alun	20		11	9	0		Walker, Parker, & Co
-Gladstone	71/4		11	11	O		ditto
- ditto	***** 71/4			11	0		A. Eyton.
-Wagstaff	10		10	0	0		Walker, Parker, & Co.
-Saxon				19	0		ditto
-North Henblas			9	10			ditto
- ditto	2		4	5	0		ditto

BLENDE. Date. Mines. Tons. Price per ton. Purchasers. June 7-Cwmbyr. 30 3 6 6 ... Dillwyn & Co.

BLACK TIN.

ARSENIC.

Date. Mine. Ts. c. q. lbs. Price p. ton. Amount. Purchasers. June 4—Pedn-an-drea ... 24 0 0 0 ... £ 3 15 10 ... — R. Michell.

COPPER ORES. Sampled May 18, and sold at Swansea, June 7.

COMPANIES BY WHOM THE ORES WERE PURCHASED.

Total...... 2509 £20,855 11 0

O SALE on June 28.

TOTALS AND AVERAGES.
21 cwts. Produce. Price. Per unit. Standard.
Whole sale ... 2509 13 28 3 10 12s.7d. .. £ 85 19 6

COPPER ORES. NO SALE on Thursday last, nor on Thursday next.

Copper ores for sale at the Royal Hotel, Truro, on Thursday week.—Mines and parcels.—Devon Great Consols 1444—South Caradon 555—Marke Valley 477—East Caradon 248—Gawton 239—Ckel Tor 200—Glasgow Caradon 193—Keily Bray 160—New Pembroke 187—Gonamena 91—Bedford United 85—Prince of Wales 77—Wheal Bussell 74—Craddock Moor 42—Caradon Consols 33.—Total, 4066 tons.

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Notices to Connespondents.

. Much inconvenience having arisen in consequence of several of the Numduring the past year being out of print, we recommend that the Journal she be filed on receipt: it then forms an accumulating useful work of refere

SHARE DEALING.—We never interfere in the sale or purchase of shares; neither do we recommend any particular mine for investment or speculation, or broker through whom business should be transacted. The addresses of most of the latter appear in our advertising columns.

through who bisiness should be chansected. The duteress of the veck respecting this mine and the parties connected with it. Applications for information should be made to Mr. Neville, the secretary of the company, 17. Ashley-terrace, North-road, Plymouth, or to those through whom shares may have been purchased: those having cause of complaint will thus be brought into communication with parties who may assist them. The reports referred to possess no interest to our readers, as they relate to alleged fraudulent shared-aling transactions, and not to matters of value to those concerned in practical and legitl mate mitning. No prospectus of the company has been published in the Journal. Cost-Book and Lintifed Interesting cannot be briefly explained; but it will perhaps, suffice to state that the main distinction, if the mine to be worked be in Cornwall and Devon (for so-called cost-book company) the amount of the shared is fixed, whilst the account of the shared is fixed, whilst the account of the effects incur debts beyond the amount of nominal capital.

PRICES OF MINING SHARES—"A. B." (Scarborough).—The prices advertis are those at which certain parcels of shares can be disposed of by the perco advertising. The holder of ten or twenty shares in a mine, desirous to reali at once, may be compelled, and would be quite willing, to sell below the quot price, but isolated transactions of this character could not be taken to affect the ordinary market quotation. PRICES OF MINING SHARES-

ROKERS' TECHNICALITIES.—"A Reader" (Midland Countles) will, doubtless find all the information he requires in "Fonn, On the Funds," published by Mr. Effingham Wilson, Royal Exchange.

THE MINING JOURNAL

LONDON, JUNE 11, 1870,

Bailway and Commercial Gazette.

UNIONIST TERRORISM AGAIN.

How much longer are our independent colliers to remain at the mercy of men who seem evermore to be permeated by a leaven of bitterness, whose perfect work is "cowardly assassination and sordid tyranny?" At the mercy of any people these sortions. thereby of men who seem evermore to be permeated by a leaven of bitterness, whose perfect work is "cowardly assassination and sordid tyranny?" At the mercy of such people the non-Unionist colliers, nevertheless, are. They get but scant protection from the authorities. These latter appear to have ceded their power of being "a terror to evil-doers, and a praise to those who do well." What other interpretation can be put upon the judgment delivered the other day in the Sheffield Town Hall, when Messrs. Newton and Chambers had one of their men up for declining to carry out an agreement to go to work, and before he left again give 28 days' notice? Tired of remaining any longer in idle antagonism with his employers, the collier (Benjamin Cooper) determined to resume work, and thereby separate himself from the Union. His decision had become known to his former party, and on the night (Sunday) before he was to begin they surrounded his house, threatened to smash his windows, and 'co him personal injury if he carried out his resolve. His employers had offered him escort to and fro; or an abode with other workmen close to the pit. The poor fellow had, however, been effectually frightened, and all the reply which could be got from him, either by his employers or before the magistrates, was: "I say I dare not go to work." A magistrate mildly suggested that the escort might be sufficient protection, but the man replied by an intimation that he feared his house would be attacked during the night. "You may be needlessly alarmed," it was responded; and he was advised, "You had better go to work at once." The report immediately adds, as the declaration of one of the sitting magistrates, "The summons will be dismissed." Previously, the same magistrate had said, "I don't see that he is to blame. I don't see that we can punish him under the circumstances. The man has done nothing wrong, and he cannot endanger his life. Can you prevent his being threatened. Who nucht to research the same has done nothing threatened.

threatened?"

Of course Messrs. Newton and Chambers could not prevent his being threatened. Who ought to possess the most power in that direction? Clearly the authorities. It may be impossible for them to restrain one man from threatening another, but they imay make threatening so risky a business as that it will be unsafe to indulge in it. At present, however, all that disaffected colliers have to do in order to keep others from resuming work is to pretty roundly threaten the men who wish to begin again; and if they can only preserve their incognito, or by sufficient terrorism prevent the threatened from giving evidence against them, then they may laugh at "the majesty of the law." There was once an occasion when certain night watchmen were thus instructed as to their duties in the streets of Messina—"You are to call at all the ale-houses, and bid them that are drunk get them to bed. How if they will not? Why, then let them alone till they are sober. If they make you not the better answer you may say they are not the men you took them for." Cooper was advised to go to work, but inasmuch as he declined, fearing violence, which no man in this kingdom ought to have cause to fear, why then he initiat not be compelled to abide by the terms of his agreement. Mr. CHAS, READE, describing how Mr. LENG (of the Skeffield Telegraph) had to go on writing his leaders with a loaded revolver on his desk, because he had proclaimed what proved to be true, that the Unions had been guilty of every trade outrage that had taken place for years in the district of which we are now writing, intimates that the reader may imagine he is speaking of California. "Oh, dear no, the very centre of England," is Mr. READE's reply. What was true apparently before the Royal Commission sat is not less true now. The authorities do not render citizens the protection they have a right to demand, and for which they pretty dearly pay.

"We do not for a moment conceive that the magistrates of Sheffield are doing other than what, as honoriable men in eve Of course Messrs, NEWTON and CHAMBERS could not prevent his

morning when they were on their way from Westwood-row to Shef-flaid; but they were beaten, some five of them, and beaten, there is field; but they were besten, some five of them, and beaten, there is little doubt, because they were what their assailants termed them in the fray "black sheep." Some 14 fellows met the five non-Unionist colliers just as they got near to the White Horse public house at Chapeltown, and, having addressed them as we have intimated, followed, says:—

"A chimney sweeper's apparatus was close at them. The reporter, going on to describe what followed, says:—

"A chimney sweeper's apparatus was close at hand, and its several joints upon the unfortunate non-Unionists. One man, Withlas SMITH, was severely handled; he was beaten, knocked down, and while on the ground his bundle of wearing apparel was stolen. Joseph Jakyis met with similar violence,"

The non-Unionists would seem to have escaped as speedily as they could, and, certain of them giving information to the police, some of their way, making for the railway station to spend the Whitsuntide holidays in Leicester.

Last week it was shown in the Mining Journal how certain of the

Last week it was shown in the Mining Journal how certain of the Last week it was shown in the Mining Journal how certain of the colliers at the Monkwood Colliery, in Derbyshire, proceeded, from first abusing and then threatening, to the manifestation of violent intentions upon the works, and were only stayed by the calling in of the police. Every act of magisterial leniency, wherever the freedom of either operatives or employers is interfered with by coercion, implied or real, is, we repeat, a grave mistake, Why, the very gomen turn Amazons in suppression of the freedom of is nour. It has been made known that the other day some 200 mine wives, at Addiwell and

Moss End, turned out, and, marching in a body, compelled three pits men to stop work; and were induced to disperse only on the promise of Mr. Scott, the manager, when they were about to drive away the fourth Moss End company of colliers, that he would settle with the men. As to these women, it was to the credit, more than otherwise, of the men that they should have retreated before the shower of stones with which the novel attacking party greeted them. The incident is further illustrative of our position, that neither capital nor labour at our collieries is sufficiently respected by the authorities. We quite concur with Mr. READE, when he says—"The Executive is fast asleep in the matter, or it would long ago have planted the Manchester district with 100,000 special constables; and the globule of legislation now prescribed to Parliament, though excellent in some respects, is null in others; it would, if it passed into law, rather encourage the intimidation of one man by twenty, and make him starve his family to save his skin—cruel alternative—and would not seriously check the darker and more bloody outrages, nor prevent their spreading from their present populous centres all over the land." Not only should the executive exercise greater determination, but the Government likewise must shake off its lethargy, and adopt stringent measures to defend the liberty of the subject against this "cowardly assassination and sordid tyranny." We call upon the mining interest in Parliament to see to the latter, and we beg all our magistracy not to be unwisely soft-hearted when such cases come before them. Unless something more worthy of our reputation as a law-abiding and order-loving people is done, the next few months of revived trade will witness painful disorganisation at our collieries and iron works.

WALES AND ITS RAILWAYS.

In last week's Journal we drew attention to a question of very considerable moment—the further development of the South Wales coal basin by means of greater facilities being granted by the Great Western Railway Company for the conveyance and shipment of minerals. We then said, and we now repeat, that in all probability the whole trade of the South Wales district, but more especially the iron and coal trades, will shortly receive a healthy stimulus—that the demand for iron for the European and foreign markets will be much greater than it has been for several years past, and that there will mand for iron for the European and foreign markets will be much greater than it has been for several years past, and that there will be larger outputs from the various collieries than has hitherto existed. In alluding to the Great Western Railway Company as the company to whom the manufacturers, colliery proprietors, and freighters naturally look for greater facilities, in order to take advantage of any increased trade, it should not be forgotten that that company was the pioneer of railway enterprise into the Principality, and to that company are the trades, therefore, indebted for many of the commercial advantages which they possess. We do not, therefore, write in any hostile spirit to the Great Western; our object is to show that whilst the trade of the district is languishing and yearning for better railway facilities, that the Great Western would by granting those facilities, and encouraging trade, ultimately find that they possess in the mineral basin of South Wales a traffic which would go a considerable way to pay larger dividends, and to retrieve its position amongst the successful commercial undertakings of the country.

The question naturally suggests itself—is the carriage of minerals

amongst the successful commercial undertakings of the country.

The question naturally suggests itself—is the carriage of minerals profitable? This, of course, depends upon circumstances. It is not, however, our purpose now to go into the question of the carriage of minerals generally, but we think the opinion will be endorsed by all practical men when we state that where (as in the case of the Great Western line) there is an almost inexhaustible supply of that quality of scal which is greatly in demand and also north and docks within of coal which is greatly in demand, and also ports and docks within short and easy access, where any quantity could be exported, that the carriage of minerals, properly conducted, must pay. And not only so. If it be true, as some engineers assert, that the dead weight only so. If it be true, as some engineers assert, that the dead weight in passenger trains amounts to no less than 95 per cent., whilst the dead weight of a goods train is but 70 per cent., then the carriage of minerals and goods will pay infinitely better than the carriage of passengers. We are not saying that we pin our faith to these statistics of the engineers (for it is well known that the dead weight with regard to goods earried on ordinary roads is only some 25 or 30 per cent.), but we think it will be generally admitted that under favourable elementances the carriage of minerals can be more profavourable circumstances the carriage of minerals can be more profitably conducted than of passengers. Why is it, then, that in Wales the mineral traffic is allowed pretty much to take care of itself? Why is it not fostered and encouraged by the railway? And how is it that out

of about 10,000,000 tons of coals annually raised in South Wales only about 4,000,000 tons are exported? We believe that there are three main reasons why the South Wales We believe that there are three main reasons why the South Wales coal trade has not yet been legitimately developed, and why consequently the Great Western Company has not received that accession to its dividends therefrom as the shareholders have a right to expect and demand. The first great impediment to the profitable carriage of minerals from the Bouth Wales basin is the want of the narrow gatige throughout the main arteries. The second, the high, and in some instances prohibitory, rates charged; and the third, is the want of better shipping facilities in the various local ports. With regard to the first of these essentials—the narrow gauge—we need only remark that it has been the universal cry of the traders of the whole of South Wales for the past twenty years! Practical experience has proved beyond the possibility of doubt that the broad gauge is not suited it the carriage of minerals through such a mountainous contintry as Wales. Some few years ago almost every iron-maker, colliery proprietor, and manufacturer of any note in the South Wales district memorialised the directorate in favour of the narrow gauge. The arguments adduced were allowed to be unanswerable. The desired boon was promised, but from that day to the present no further practical steps have been taken in the matter, and the trade

further practical steps have been taken in the matter, and the trade still asks, but asks in vain, for the promised relief.

The second impediment to the legiti mate development of the mineral trade of South Wales is the high rates charged for transmineral trade of South Wales is the high rates charged for transport. We unhesitatingly state that in some instances the rates demanded are prohibitory—that is to say, a colliery proprietor cannot profitably export the produce of his pit on account of the tax imposed by the railways. A penny, and in some instances three half-pence, per ton per mile (exclusive of trucks) is the common charge for mineral traffic in Wales. This charge is so high that, except in very favourable localities, it is impossible to profitably work the coals, and vast areas now lie unopened, which with proper railway biscouragements would be developed. It is generally admitted that the train cost per mile of a goods train is about 3s.; a mineral train usually consists of about 280 tons or 300 tons, and if a charge of only one farthing ner ton per mile was made this would amount to about only one farthing per ton per mile was made this would amount to about 6s. per mile. High charges simply mean, now-a-day, obstruction of trade and small profits; and if the Great Western Railway Company would keep this good old maxim in view, and practically give effect thereto, they would render an incalculable amount of good to the merchants and traders of the district, and most unquestionably augment their own returns.

The third impediment is the want of greater facilities at the various local ports of shipment. Unfortunately for the colliery proprietors and shippers, the Great Western Company have not only the manage-

through line? These and other questions of serious import to the colliery proprietors and traders of South Wales on the one hand, and to the shareholders of the Great Western Company on the other hand, should engage the immediate and earnest attention of the directors—their own interests are involved in their practical solution. As railway facilities are granted, so will the trade of the Principality expand. Let, then, the directors read the signs of the times. We fain hope and believe the suicidal policy of former years is now abandoned—promptitude and energy are, however, required to give full effect to the increased trade springing up on all hands. The interest of the traders and those of the railway shareholders are identical one cannot advance without the other. The traders naturally look to the railway for help. The company have now the trade in their own hands. If fostered and encouraged it will flourish and expand. If the railway company neglect the interests of the colliery proprietors and general traders of the district other alliances will be made, and rival lines heartily welcomed.

COAL IN THE FISCAL LEGISLATION OF THE UNITED STATES AND CANADA.

STATES AND CANADA.

"The House of Representatives, by 113 to 79 votes, has instructed the Committee of Ways and Means to prepare a Bill repealing the duty on coal." Here we have a telegram dated "Washington, Junes," At its character no one who has read the information communicated in the Journal upon the current Tariff legislation in the United States will be surprised. Upon bituminous coal the duty at present levid there is \$1½ per ton, and upon anthracite it is 40 c. per ton. The protectionists, in their new Bill, were ready to allow anthracite to be admitted free, but they objected to any change upon bituminous. The House of Representatives, however, it is clear is not content with such an arrangement, and the immense majority by which they have expressed their dissatisfaction is tolerably indicative that alike bit, minous and anthracite coal will soon be upon the list of American free imports. Hereat we cannot but express satisfaction.

In respect of coal, this legislation will be a decided contrast to the course which has just been determined upon by the Camadian Government. In Canada, ever since the abrogation of the Reciprocity Treaty with the United States, in 1866, there has been a pardonable feeling of grievance at the narrow and exclusive policy of the States. Leafing products were admitted duty free into Canada, and on no articles had the duty been excessive, but the States Tariff had been nearly prohibitary. The Canadian Government, however, failing to seem the renewal of the Treaty by diplomacy, determined to apply fore.

the day been considered to apply fore, the renewal of the Treaty by diplomacy, determined to apply fore, the renewal of the Treaty by diplomacy, determined to apply fore. They would show the States that the Canadas could likewise have "a policy of its own," under which it, too, might give "native in "a policy of its own," under which it, too, might give "native in "a policy of its own," under which it, too, might give "native in "a policy of its own," under which a process." "a policy of its own," under which it, too, might give "native interests" a moderate amount of protection. Amongst the taxes proposed there was to be a duty of 4c. (2d.) per bushel on imported wheat, 25c. (1s.) a barriel on flour, grain other than wheat 3c. (14d) per bushel, rice 1 c. per pound, coal 50 c. per ton, and salt 6c. per bushel, unless imported from Great Britain or her possessions. Then there was to be an additional 5 per cent, on the amount of all dutis, new or old, to be thereafter collected. Sir George Cartier that described a national policy—Ontario would have its salt and grain moderately protected in Quebec, the coarse grain barley and one would be protected, and Nova Scotla would have its coal protected. New Brunswick would benefit generally, although a buyer of both coal and bread stuffs, by the enhanced prosperity of the whole dominion. Sir John Macdonald, the Fremier, admitted, howers, that what benefited one province might injure another; but they must sink all these questions in order to have a "national policy," for it was necessary they should let the American Government know that if the United States had a Tariff Canada also could adopt os, and govern their own country after their own fashion. The absurdity of the legislation was pithily put by the President of the Quebe Boad of the contractions. and govern their own country after their own fashion. The absurding of the legislation was pithily put by the President of the Quebee Board of Trade, who showed that that port took 130,000 tons of soil 100 Great Britain, and, estimating the relative prices at the pit's mouth of Scotch or American coal, the duty actually had a discriminating effect in favour of the latter, which the Tariff was intended to exclude. The Tariff was universally unpopular, and at an afternoon sitting the Government consented to abandon it. This they did step by step, the coal duty being the first to go. But at the evening sitting the Britan was re-introduced, some extraordinary influence having been brought to bear upon the Ministry in the brief interval of recess. After many nights of stormy debate the measure was passed through the Commons, and was eventually got through the Senate by 26 votes to 23. It is now law. It is now law.

The coalowners in Nova Scotia were, no doubt, angry at the refusal

It is now law.

The coalowners in Nova Scotia were, no doubt, angry at the refusi of the United States to admit their coal free, whilst Pennsylvania was allowed to send its coal without duty into the Canadian, and chiefly the Ontario market. The supply of wood is gradually decreasing in the neighbourhood of all the great towns of Upper Canada, and coal is taking the place of wood. It is explained that the additional 2s, will tax the port of Toronto alone to the extent of from \$30,000 to \$40,000 annually, but that it will still be far cheaper to consume Pennsylvania coal even at the higher price created by the duty than bring the fuel from Nova Scotia. This province is alarge importer of bread stuffs, and must pay the extra cost on those products in return for whatever advantage (?) her coal proprietors may gain by the tax on imported coal. "Curiously enough, too (writes a correspondent, under date Toronto, May 19), those persons do not happen to be Canadians, or Nova Scotians, or Englishmen, but, with a few exceptions, are Americans—for whose sake to a great extent Canada is adopting her grand and exclusive national policy." No wonder that he should ask, "Can absurbit go much further?"

The Nova Scotians will soon, however, have an opportunity of sending their coal into the States free of duty. We do not think that the putting of 50 cents on United States coal sent into Canada has had any influence in bringing about the decision at which the l1 members of the House of Representatives have just come. Weinfer rather that the change is due to the growing determination of the manufacturing interests of the States to obtain their fuel at cheaper rates than are now possible. The colliery interest of Nova Scotia may well be congratulated upon their prospects.

THE USE OF GUNPOWDER IN MINES.

THE USE OF GUNPOWDER IN MINES.

Whilst the proposition for superseding the use of gunpowder in mines by the substitution of mechanical appliances is attracting so much attention, the information given in his paper, read before the Manchester Geological Society, on the Use of Gunpowder in Mines, by Mr. G. C. Greenwell, is of especial value. That the use of gunpowder affords the greatest facility for breaking down coal has long been admitted by all practical men, and it is probable that but for the very careless use of it the proposition to prohibit its use in mines would never have been heard of. There appears to be no valid objection to the use of gunpowder if ordinary judgment be exercised, and Mr. Greenwell's paper pointed out the chief causes of accident, and the means of ensuring safety. He regards the use of gun-The third impediment is the want of greater facilities at the various to local ports of shipment. Unfortunately for the colliery proprietors and shippers, the Great Western Company have not only the management of the lines to the various ports, but also the shipping facilities in their keeping. One, probably, is only the natural sequence of the other, but the practical result is to injuriously affect the shipment of coal. The whole of the shipping ports of South Wales require more coal drops, more aiding accommodation and other shipping facilities. These, too, have been often admitted by the directors of the railway, but hitherto they have not been granted. A moderate outlar, judiciously expended at the principal ports, would give a great impetus to the coal trade, and could scarcely fail to prove remunerative to the rallway company.

There can be no doubt that if these three main essentials were granted by the Great Western Railway Company the coal trade would soon treble if not quadruple itself. There is certainly no reason why it should not. There is an inexhaustible supply, and the demand for the better qualities of steam coal is increasing almost daily. The favourable position of South Wales ought to command the whole of the European markets, with perhaps a few exceptions in the extreme North. Many ports in the British Channel require back freights, and the coal of South Wales to them would be a priceless boon. Why are fine railway rates to those ports prohibitory? Why cannot South Wales coal be profitably delivered in London by means of its main dent, and the means of ensuring safety. He regards the use of gun

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blasting in mines, a good blasting powder being the most economic explosive for mining purposes which has yet been introduced.

It is not at all surprising that so eminently practical a man as Mr. GREENWELL should condemn the use of naked powder, for this has, doublies, led to many accidents. In silicious rooks the objection is especially apparent, owing to the risk of sparks being given off by the flint. He advocated the use of paper cartridges and safety-fuses instead of loaded straws, and gave the preference to copper rather than iron prickers, though he admitted that in Prussia, where iron was exclusively used, no accidents occurred that could be traced to their use; he attributed this immunity from accident to the universal employment of cartridges instead of naked powder. But the real cause of the continually increasing accidents in connection with blasting in mines is, probably, neither the use of naked powder nor that of iron tamping-roods and prickers, but rather the use of gunpowder as a substitute, and not merely as an aid, for legitimate work in getting the coal. If the coal be underent and holed on one side before it is blasted, the use of gunpowder is attended with no more danger in mining than in sporting; but when the coal is blasted on beth sides, as is now daily becoming more common, the number of fast shots is increased, and, consequently, the amount of danger. It is quite true that several of the inexplicable accidents which have recently occurred have taken place in headings wherein this mode of bringing down the coal has been practised, and it is equally true that the theory that has been started that the injuries which many of the man affected by them sustained had been caused by the ignition of inflammable coal dust, its scarcely satisfactory. The explanation given by Mr. GREENWELL seems much more admissible; he observes that this thoury sets as a state of some recent accidents and the through the probability that it may be a subject to the serious and accident and the variation of a pit

BIDDER OF URL by Mr. J. GRAFTON JONES should be used would seem to depend in a great measure upon the nature of the seam being worked; but the substitution of the screw pump for the ordinary hydraulic ram, as proposed by Mr. J. GRAFTON JONES, certainly seems to give his machine an advantage. The advisability of prohibiting the use of guapowder may be doubtful, but Mr. GREENWELL's paper, and the observations upon it, cannot but induce the opinion that even when care is used by the workmen wedging the coal is no more laborious and much safer than blasting.

THE MINERAL RESOURCES OF THE SOUTH-WEST OF IRELAND.

tions, which in all districts are looked upon, known, and believed to be true indications of continued richness, are here, again, equally congental and well determined. We dwell upon this as evidence again bearing out our views relative to those conditions in depth hitherto not generally or sufficiently recognised in the South and South-West of Ireland, and certainly not properly understood or regarded some years since by certain geological observers, it being believed and asserted that no true looks existed in depth. Mr. Hyde's paper, supported as it is by daily increasing testimony, should go far to remove this general but erroneous impression, by showing that here, as in Cornwall and other areas where similar conditions occur, there is ground for belief in the existence of good ores of copper in well-defined iodes, and at depths equal to that of other metalliferous areas, or districts, throughout Europe.

TRADE OF THE TYNE AND WEAR.

TRADE OF THE TYNE AND WEAR.

June 9.—The Coal and other trades here continue to prosper, all branches being well employed, and the prospect is better than it has been for years. The strike at Backworth, asstated last week, happily terminated after the stop of three weeks, and the district is now free from those disagreeable pests for the present. The Coke Trade, of course, continues to be most animated, the makers being taxed to the utmost, and it is scarcely possible to get the supply up to the demand. The iron furnaces and foundries are full of orders, and the general engine and iron manufacturers are also most of them extremely busy. As lately remarked in this letter, the works of Sir William Armstrong and Co., at Elswick, are shortly to be considerably extended, and an enormous new steam-hammer is to be erected. Large gas-furnaces are to be placed near the hammer, and cranes and every modern appliance, with many recent improvements, are to be introduced, so as to facilitate the forging of iron for guns of large calibre, shafts for engines, &c. A further rise has taken place in the price of pig-iron, and it is expected that rails and bars will shortly be advanced again in price, as the demand is extremely good, and is still interestical. vanced again in price, as the demand is extremely good, and is still increasing

increasing.

MECHANICAL VENTILATION.—As lately remarked in this letter, the ventilation of collieries by mechanical means in preference to furnace ventilation continues to make rapid progress. A large fan on the Guibal system has been lately constructed at Messrs. Black and Hawthorn's, Gateshead, and it has also been erected and got to work at the colliery of Lord Lonsdale, at Whitehaven; it is 36 ft. in diameter, and 12 ft. in width. It has so far given great satisfaction, the gross quantity of air put into circulation by it being 182,000 cubic feet per minute with 5 inches of water gauge, and nearly 21'6 indicated effective horse-power; and, what is very important, the power utilised amounted to 66'41 per cent. We append a detailed official account of these very remarkable and eminently satisfactory experiments:—Experiments on Guibal's ventilator at Lord Lonsdale's Colliery, Whitehaven, on May 10: ventilator, 36 ft. diameter, by 12 ft. wide; engine, 30 in. diameter, and 30 in. stroke. Experiments conducted by Messrs, G. B. Forster, T. W. Bunning, Thomas Hawthorn, and S. Shepherd:—

Date of experi-	No. of experi-	Letters of expe- ment.	Aver. effective indicated pres- sure on piston.	Indicated effec- tive horse-pwr. of engine.	Quantity of air in mine, cubic ft. per minute.	Water-gauge at inlet of fan.	Power in the air at inlet of fan.	Propor. of ef- fective powers utilised p. cent.	Double strokes engine per min.	Steam in boilers -ibs. per sq.in.	Quantity of air per revolution of fan.
1870. May 10	1 2 3	A & B C & D E & F	Lbs. 8.841 16.136 28.000	H.P. 40.716 88.136 215.913 * Richs	94,786 128,540 182,000 ards' ind	In. 1.6 2.8 5.0 icate	H.P. 28*900 56*713 143*594 or.	58·70 64·34 66·41	43 51 72	45 45 50	2204* 2520* 2528*

NORTH OF ENGLAND INSTITUTE OF MINING AND MECHANICAL ENGINERS.—At the meeting of members, on Saturday, the intended meeting at Glasgow was mentioned, when it transpired that the days fixed were the same as for the annual meeting of the Mechanical Engineers at Birmingham, and as the members could not attend both meetings it was resolved that the secretary be requested to visit Glasgow, and endeavour to get the time of meeting altered, so as to permit members who wish it to attend the meeting of Mechanical Engineers, as well as the meeting of Mining and Mechanical Engineers at Glasgow.

A paper was then read by Mr. Alex. Ross., "On Boring against Water in Coal Mines." The paper was illustrated by diagrams, showing the various modes of toxist, and no pians are extant showing the outlines of such workings. Some discussion took place on the paper, but, as its usual, it was postponed until the next meeting, when the paper will have been printed.

Mr. Green's paper, "On Weights and Measures now and formerly Used in the Coal Trade," was then read, and it also will be printed previous to next meeting.

REPORT FROM THE NORTH OF ENGLAND.

dealer ram, as proposed by Mr. J. Graw-for Johns, eventually the use of gunpowder may be doubtful, but Mr. Greenwill, but as little beave of the work when eare is used by the workmen wedging the coal is no more laborious and much safer than blasting.

Collings' Wages in Mr. Greenwill, but Mr. Greenwill, but as little does not be dealer a boiled season. Trade its, often as possible will be lost, so that the heavy contracts on hand for manufactured materials may be an district on the season of the delight of the holidays, but as the least of the holidays, but the miners alone that any dispute exists. The maters simply desire to pay the same (comparative) kreen as a green parting companies, but the men demand the same price parting companies, but the men demand the same price parting companies, but the men demand the same price parting companies, but the men demand the same price parting companies, but the men demand the same price parting companies, but the men demand the same price parting companies, but the men demand the same price parting companies, but the men demand the same price parting companies, but the men demand the same price parting companies, but the men demand the same price parting companies, but the men demand the same price parting companies, but the men demand the same price parting companies, but the men demand the same price parting companies, but the miner same parting companies and the same parting with the district are paid to the same parting the same parting of the well

or some importance to this district. The fine will be, when completed, about eight miles in length. Six and a half miles have been finished, at a cost of about 7500L per mile. The railway has been constructed in order to open out and work some large and valuable deposits of limestone, said to contain an average of 95 to 98 per cent. of carbonate of lime. Before the Merrybent Mines can be reached a rock of limestone 80 ft. thick will have to be cut through. About a million tons of limestone are consumed in the Cleveland district annually, and the public of this is braucht from the consumed of the consumed of the consumed the consumer consumed the consumer cons The views and statements of Mr. Hyde's paper, reviewed by us, continue to receive further demonstration. Recent advices state that a rich deposit of copper ore has been cut at Ballycummisk Mine, on the Big Ben lode, and at the 174 fm, level. Specimens of the rock may be seen at the London offices. The lode is here proved to be from 14 to 16 ft. wide, and extremely productive. From the surface downwards this lode has in places along its course or strike always exhibited unmistaceable widence and proofs of reliness; and its general super. As regards matrix and scattering, it is so attiking that it may be compared in all its conditions and claiming of reliness; and its general super. As regards matrix and scatter, is, so attiking that it may be compared in all its conditions and claiming of productiveness of the lodes here as well as in Corowally, and white quarts, associated with copper pyrites. These conditions are so marked as to clearly establish the presence of large deposits of ore; and the associated conditions are so marked as to clearly establish the presence of large deposits of ore; and the associated conditions are so marked as to clearly establish the presence of large deposits of ore; and the associated conditions are so marked as to clearly establish the presence of large deposits of ore; and the associated conditions are so marked as to clearly establish the presence of large deposits of ore; and the associated conditions are so marked as to clearly establish the presence of large deposits of ore; and the sociated conditions are so marked as to clearly establish the presence of large deposits of ore; and the establish of this is brought from the neighbourhood of Stanhope, limited one of limestone are consumed in the Cleveland district annually, and white the large to marked as to be limestone are consumed in the Cleveland district annually, and the bulk of this is brought from the neighbourhood of Stanhope, limited one of limestone are consumed in the Cleveland district annually, and the bulk of th

is something like 2000 acres, 500 of which is freehold, the remainder belonging to the Duchess Eleanor of Northumberland; about 1000 acres of this the directors expect is limestone. Mr. H. K. Spark (the Chairman of the company) presided over the luncheon, to which about 150 ladies and gentlemen sat down, and the village of Barton (the present terminus of the new railway) was on the occasion en fete.

A Polytechnic Exhibition was opened at Darlington on Monday, and will remain open for some time. Many of the articles on view are for the International Exhibition next year. Amongst the thousand and one things to be seen we observed Mr. J. Cooke's fan for ventilating mines, Calow's safety-cage (shown by Mr. J. Marley, M.E., of Darlinton), Howard's safety-boiler, Hopkins' patent safety-vale, and Broadbent's smoke-preventer. Broadbent's smoke-preventer.

REPORT FROM DERBYSHIRE AND YORKSHIRE.

REPORT FROM DERBYSHIRE AND YORKSHIRE.

June 9.—There was a slight interruption to business, owing to the holidays, but the works are once more in their ordinary state, the men, as a rule, being fairly employed at the leading iron-producing establishments. The foundries are kept well going, and there is now a very large output of pig-iron. There is no change to be noticed with regard to the Coal Trade, the demand for household qualities being still of a rather limited character, the fine weather of the last week or two having a strong tendency not only to check sales, but to limit the stocks held by merchants. Steam Coal is now in very fair demand, and a good deal is being sent out of the district. The connecting of the Eastern and the Midland Railway with the new dock at Lynn, which has just taken place, will be of some advantage to the coal owners of Derbyshire, as the coal can be sent by railway direct. At the present time a considerable proportion of the coal sent to Lynn is shipped from Goole and the other Yorkshire ports.

Most of the heavy branches of the iron trade in Shefield are in active work, there being evidently a brisk demand for heavy plates for our iron-clads and general shipping. This important department of the iron trade, which may be said to be indigenous to the town, appears to be in a highly flourishing state, and the reputation which the Sheffield plates enjoys all over the world, and the efforts being made by all maritime countries to obtain casing for ships capable of resisting the powerful projectiles now made, will, doubtless, lead to a constantly increasing demand for them. Rails and general railway material, including locomotives, are in brisk request, and the Bessemer steel works are very busy. In the Rotherham district the works are kept well going. There is, however, no change with regard to the business doing in coal, household sorts being still very quiet. The Thoracliffe Collieries are being worked the same as they have been for several weeks past, the men being allowed to go

then on their own fund, could render no assistance.

then on their own fund, could render no assistance.

THE MINERALS IN THE MIDLAND.—There is probably no line of railway in the kingdom which passes through such an extent of mineral country as the Midland, or which is likely to be benefited to anything like the same extent by the development of the wealth which at present is either entirely undistured or in course of being opened out. In Derbyshire and the adjoining counties to the south there is just now more collieries being sunk than in any other part of the kingdom, whilst their contiguity to London give them a great advantage over Lancashire and Yorkshire, or the North of England. Already Derbyshire supplies more than two-fitchs of all the coal sent to London by railway, whilst the quantity is increasing to a much greater extent than has been the case intherto. Commencing with one of the principal terminal points of the line, Leeds, it passes through a rich mineral district to Normanto-collectes being now opened out, whilst working the render of the coal interest of the present of the present of the present of the coal interest of THE MINERALS IN THE MIDLAND .- There is probably no line of

THE SOUTH YORKSHIRE STEAM COAL OWNERS' ASSOCIATION .-A meeting of this association was held on Saturday, at Doneaster, Mr. C. Bartholomew in the chair. The transactions which had taken place with regard to commencing operations at Hull, on the 1st inst, were ratified, and it was agreed that an office should be taken at the Trinity House, and furnished for the transaction of the business of Trinity House, and furnished for the transaction of the business of the association. A deputation was appointed to wait on Earl Fitz-william, Lord Lieutenant of the West Riding, with a view to his lordship becoming the President of the Association. Earl Fitzwilliam is not only a large colliery and ironstone mine proprietor, but is also the lessor of several very large and valuable cost fields, now being worked in South Yorkshire, so that there is every likelihood of his lordship accepting the office of president of an association all the members of which are amongst the largest colliery owners in Yorkshire. It was stated that the association was now in a position to supply direct from their collieries steam coal to any extent required, so that the port of Hull would be placed in equally as good as a position as Newcastle and the Welsh ports were for shipping direct. At the expiration of the present contracts, a very condent feeling was expressed that a large share of the continental business would be thrown into the hands of the association, as it was well known that the hard steam coal of Soutt Vorfschire had many advantages over that of some other districts, being especially adapted for hot climates, and for steamers working at high pressure and with compound cylin-

Date

ders, as it does not fall or disintegrate under the action of moisture and heat. Another important advantage offered by the association is that the coal will not be mixed, as is too often done, an inferior with a better quality, but will be sent direct from the colliery, as desired, and will, therefore, be of uniform quality, and from the South Yorkshire coal field only. The firms at present constituting the association are—the Wombwell Main Coal Company; the Lund Hill Colliery Company; Mitchell, Bartholomew, and Tyas, Edmunds and Swarthe Main Collieries; Messrs, Crofts and Batty, Darley Main and Pinder Oaks Collieries; Mr. W. Day, Mount Osborne and Agnes Main Collieries; T. D); mond and Co., the Oaks Colliery; the Denaby Main Coal Company; Crait and Co., East Gawber Colliery; the Denaby Main Coal Company, Mexborough; and the Aldwark Main Colliery Company, near Rotherham. As the association will be the means of doing away with the profits hitherto made by the broker and merchant—generally much larger then falls to the share of the coalowner—the foreign consumers will be able to ensure a fine quality of coal on better terms then they have hitherto been supplied.

THE RECENT COLLIERY ACCIDENT NEAR WIGAN.—The inquest on the bodies of the three colliers killed by the fall of a large stone at Walthew House Colliery, near Wigan, has resulted in a verdict of "Accidental Death." Mr. Higson, Mine Inspector, who was present, said he did not remember having ever seen a fall so immense. He severely censured the man who was working in the place adjacent to that in which the stone fell for not sending his drawers for props when he knew there were props to be had, and when he felt the place to be unaafe. He thought he should bring the case of Henry Whalley before the magistrates. The deceased man, Fairhurst, had not used the props provided for him; but still he thought such a fall as there had been would crush any amount of timper. Underlookers or firemen would have to be made responsible by Act of Parliament for propping. THE RECENT COLLIERY ACCIDENT NEAR WIGAN.—The inques

REPORT FROM SCOTLAND.

June 8.—We have had what some of our friends here style an "outrageously" strong market for Pig-Iron, speculators—and they are principally English—buying up every pound of pig-iron that can be got, and are sending it into store at the rate of 150 tons an hour, or from 12,000 to 15,000 tons a week. These operations are clearing off makers' stocks rapidly; and, supposing them to continue till the month of August next, when the Fall shipments take place, merchants will have to purchase on speculators' terms, and in all probability in a market all but pressed up to the bursting point. The pig-iron market isat the present time sufficiently strong to bear considerable pressure, but it will not bear "rigging;" and there have been visits made from the metropolis of some few of these gentlemen, which is making the merchants and brokers here operate cautiously, and sometimes to suspend operations altogether. With this style of buying prices were pushed, at the close of last week, to 60s. 1½d. prompt, and 60s. 3d. one month. This week the same course was pursued, and on Monday 60s. 9d. cash, and 61s. 30 days, was paid for various lots; while yesterday an advance was required on these prices on late 'Change, on account of a rumoured reduction of \$2 per ton on the import duty in the United States. The opening transactions this morning were done at 61s. 6d. cash, when several thousand tons changed hands, but afterwards prices gave way, and down to 60s. 9d. cash and 61s. one month was accepted. On late 'Change these quotations improved to 60s. 10½d., and 61s. cash; and 61s. 1½d. and 61s. 4d. one month for about 8000 tons. No. 1 g.m.b., 61s.; No. 3, 59s. 6d.; Coltness and Gartsherrie, No. 1, 67s.; Langloan and Shotts, 62s.; all Eglinton brands, 61s. Market shifty to-day. The shipments of pig-iron from the Scotch ports for the week were in advance of those of last year, those for the week ending yesterday being 15,740 tons, against 10,832 tons in the corresponding week of last year. The total quantity of pig-iron in store at th June 8 .- We have had what some of our friends here style an "outseveral additional smelting furnaces in blast over those of last year. The Malleable Iron Trade is being carried on with some restrictions, the output being limited by from one-fourth to three-fourths of the ordinary make. Of course, this is occasioned by the strike and lookthe output being limited by from one-fourth to three-fourths of the ordinary make. Of course, this is occasioned by the strike and lock-out of the puddlers, who are by this means crippling themselves while seeking to arrest the progress of their own trade. At a private meeting of the ironmasters, yesterday, we learn that they could not see their way to accept of the proposed arbitration in their circumstances; and that they resolved to keep their works closed till the puddlers returned on the terms which they formerly refused. Some few of the young men have gone south, but everybody in the trade knows that puddlers cannot migrate with the celerity of swallows; and the fact is that the great majority, if taken individually, would knows that puddlers cannot migrate with the celerity of swallows; and the fact is that the great majority, if taken individually, would eagerly accept work at once; it is the body en masse that are on strike, and another week or two of "short commons" will send them to their furnaces without a doubt. As we have shown over and over again, Scotch makers are not participating in the recent rise in manufactured iron unless to a very limited extent, and hence it was most inopportune and inconsiderate for the puddlers to strike before their employers were really in possession of the advance.

At an aggregate meeting of the locked-out puddlers, held at Holytono, on Tuesday, to hear the answer of the employers to the proferred arbitration on behalf of the men, the reports were regarded as most unsatisfactory, and the following resolutions were agreed

as most unsatisfactory, and the following resolutions were agreed

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11. That having made the offer of arbitration we are still willing to add
to it, but that we cannot now approach the employers, but they must come
us.—2. That all leave the locality as soon as possible for other fields of labou to it, but that we cannot now approach the employers, but they must come to us. -2. That all leave the locality as soon as possible for other fields of labour." The puddlers were evidently disappointed, and they resolved to forward to all their employers the rules of the North of England Arbi-

tration Board as the basis of adjustment for existing differences.

On Wednesday afternoon the fourth furnace at the Quarter Iron
Works was set in operation, and we learn two other furnaces are to be built forthwith, A new pit has also been sunk, and is now in full

operation.

The market for Finished Iron is firm, and we are shipping fencing bars, nail-rods, iron wire, galvanised iron, lamp pillars, pipes, and hollow ware to a considerable extent; and there is still a large home demand for flat bars, rivet and angle iron, and plates.

The demand for splint coal for shipment is tolerably active, but the

enquiry for household qualities is very limited. Our last quotations are held easy, and satisfactory business can be done under market prices. During the week the shipments were 28,387 tons, against the larger total of 35,422 tons in the same week of 1869. Ironmasters' colliers are well employed, but coalmasters' pits are working short time in several districts, and the men are still agitating for an advance of wages.

wance of wages.

Several mineral properties—ironstone, gas and splint coal, and shale—are in the market, for private sale and by auction.

The Silver Mines at Bathgate have been so far proved that their further profitable working is almost placed beyond a doubt. While Mr. Aitken's (the lessee of the mines) workmen were employed quarrying some limestone for his kilns, on Saturday last, they came upon a vein of silver and lead ore, from 15 to 20 in, thick; and a few yards from this one another was discovered, not quite so thick, but considerably richer. The quarry is being worked north and south, but the silver and lead ores yet discovered cross the limestone, and run east and west. These opportune discoveries have led the lessee to set about making preparations for working the silver and other interjected minerals, which are held on lease from the Earl of Hopetoun. This "find" may encourage the initiated to go a prospecting.

making preparations for working the silver and other interjected minerals, which are held on lease from the Earl of Hopetoun. This "find" may encourage the initiated to go a prospecting.

The first section of the Callander and Oban Railway, which was commenced in October, 1866, has just been opened. This section is from Callander to Glen-Ogle, a distance of about 17 miles, and within 3½ miles of Killin. Only one line of rails has been laid down, but ground has been acquired for a second, should that be found necessary. The cost has been from 10,000? to 12,000? per mile. At one time between 13,000 and 14,000 men were employed in its construction.

The Clyde shipbuilders are all full manned, and during May they launched 19 vessels, of about 13,000 tons.

At a meeting of the miners of the Wishaw district on Tuesday evening, Mr. Brown, of Leeds, said—

"He had that day returned from Ayrshire, where he was sorry to see in some places men toiling 12 hours a day; but, from the agitation at present existing, he hoped soon to find throughout the West of Sectland the eight-hour movement the rule, not the exception. The speaker referred to a rumour that he was sent down by the Yorkshire mine owners to create an agitation, provoke the Secoluminers to strike, and thereby turn the trade towards the English market, and repudiated such an idea."

Notwithstanding this disclamer, it is quite unreasonable to suppose

repudiated such an idea."

Notwith standing this disclamer, it is quite unreasonable to suppose that either Mr. McDonald or Mr. Brown are doing all this agitation without money and without price."

to sell for immediate payment, 60s. 9d. and 60s. $7\frac{1}{2}$ d. prompt was accepted, and we close—buyers, 60s. 6d.; sellers, 60s. $7\frac{1}{2}$ d. cash; and cepted, and we 61s., 30 days.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

June 9.—The Whitsun week is generally a slack one in South Staffordshire, and not much has been doing at the works since Saturday. Festivals are, however, kept more decorously than they used to be. People are inclined to enjoy themselves in a different, and certainly in a more wholesome and decent fashion. Trips to Matlock and Maivern, or to the sea coast, are better than heavy swills at a tap, with the sequence of fights, and a repletion of the police cells; and, bad as Staffordshire may be in its mineral districts. North and South, it is improving, and the rising generation have a wider and higher range of enjoyment than their fathers.

The Iron Trade is not particularly changed. The demand for rails

of enjoyment than their fathers.

The Iron Trade is not particularly changed. The demand for rails is good, but there are not many being rolled in South Staffordshire, and no very great quantity in the North. In the former district there is a quiet flow of orders, without any pressure, and the cessation of the Scotch works, on account of the strike, has not had as much effect as might have been anticipated. There is still a good deal of underselling, and the works are not fully employed. Possibly the desire to get a good price for pig-iron, and for coal and ironstone, in the forth-coming renewal of the quarterly contracts may be giving rather too couleur de rose a hue to reports as to the state of the trade just now. It is much better than it was, but hardly justifies all the representations put forward. ns put forward.

tions put forward.

The investigation into the cause of the boiler explosion at Kidsgrove dissipated all the mystery which appeared at first to attach to the accident. According to the accounts, the boilers were watched with a lynx-eyed sharpness, which rendered it impossible that any defect could exist for many days without being detected and remedied. Yet Mr. Longridge, of Manchester, looks at the remains, and can at once point out how by corrosion and the action of sulphurous acid derived from combustion the boiler has been weakened until it could no longer sustain the pressure to which it was exposed. Mr. Longridge stated that some of the deposit taken from the external surface of the boiler contained 41.6 per cent. of sulphurous acid. He added that the weak place could easily have been discovered on surface of the boiler contained 41.6 per cent, of sulphurous acid. He added that the weak place could easily have been discovered on due examination by a competent person, and that the boiler had clearly been dangerous to work for some time past. The jury returned a verdict of "Accidental Death," but appended a recommendation to their verdict "that the whole of the boilers at the works be periodically inspected by a competent, scientific man." There are now 13 persons dead from the accident. A handsome sum has been contributed for the support of the widows and children of those who were married. The accident should bring home to every owner of a steam-boiler the necessity for the regular periodical inspection by a really competent person.

who were married. The accident should bring home to every owner of a steam-boiler the necessity for the regular periodical inspection by a really competent person.

The Illustrated Midland News, which is published in Birmingham, has a full and interesting account of the lock and safe works of Mr. Chubb, the former at Wolverhampton and the latter in London. After noticing the various improvements made in the locks by the proprietor, and by the manager of the Wolverhampton works, Mr. Hunter, the writer says of the lock works at Wolverhampton:

The lock factory is under the entire control of Mr. Ebenezer Hunter, whose inventive genius has done much to advance the reputation of the establishment. Mr. Hunter received us very courteously on the occasion of our visit, and accompanied us through the various workshops. The most striking feature of the interior of Chubb's factory is a negative one. There is no machinery. Mr. Hunter prices himself on the circumstance that all the locks are made exclusively by hand, just as they were made half a century ago. In a shop of 20 workspeople a foot-lathe is the only visible ald to the workman, beyond the vice and a formidable array of files and hammers. There are in all 160 workpeople, who produce 3600 locks per year. The security of Chubb's locks lies in their illimitable variety, and this can only be attained to perfection by hand-labour, machinery being only applied with advantage when a large quantity of articles exactly alike are required. It was a notable feature in each department of the factory that the men looked well clothed, well fed, and, in fact, presented a much better appearance than that which characteries the locksmiths of Willenhall, Short Heath, and New Invention. In every shop we noticed some evidence of mental culture in the shape of newspapers and periodicals, which Mr. Hunter told us were the solace of every leisure moment. The men have also established a very creditable library, to which Mr. Chubb, Mr. Hunter, Sir John Morris, and the Earl Dartmouth have

The Dudley Correspondent of the Wolverhampton Chronicle writes:—

We are far advanced in the quarter, and up to now the orders which have been coming in are not of so satisfactory a character as could be wished. There seems to be some prospect, however, as the season advances that orders will become more numerous. Looking at things generally, prices are far from being so remunerative as could be wished, and it is rather questionable if rates will go any higher: Indeed, with bars at 81. It is not likely that any advance will take place. There is no standard, however, to govern the trade in this matter except demand; when prices are forced up one of these things will happen—elefber the demand for the article will diminish, or the rade will go into other districts, such has been the case since the last rise. The only thing that tells in our favour at the present time is that our great competitors in the fron trade are full of orders, and are auxious not to take in any more; of necessity, therefore, some will eventually flow into these districts. This is just what is taking place at this time in reference to the pig trade, which is in a better position then it has been for years past. It is pretty well understood that the "make" is hardly up to the demand, and especially for some sorts of pig-iron, hence it is that the market has become more huoyant in these localities, but still there is no probability of any great advance taking place. Some of the leading mon in the trade, and men of great experience too, feeling rather confident on this point have sold largely in advance at existing rates. There has been a good demand for coal for works purposes, and the proprietors of biast-furnaces have been laying in considerable stocks to carry them over the holidays, as little or no work will be done at the pits this week. There is rot much hematite or hydrate coming in, and as a result the argillaceous ironatones of the district are stiffening in prices, and more eagerly sought after than they were. The labour market in so

REPORT FROM MONMOUTH AND SOUTH WALES.

June 9 .- The position of the Iron Trade has changed to no notice able extent since last week, but what slight movement may have been made has been favourable. Since last report another holiday season has been entered upon, and some little abatement has taken place in operations at the numerous establishments of the district; but makers, operations at the unmerous establishments of the district; but makers, however, cannot allow that much time, which is so valuable to them at present, should be lost, and probably before the week has closed the usual briskness will prevail. The continued dry and intensely hot season, which no doubt is favourable to holiday keeping, is not altogether calculated to aid business. The prolonged drought is causing some alarm in regard to the water supplies, and the increasing heat will necessarily frustrate operations to some extent, as the hands will experience greater difficulty in withstanding the fires of furnace and forge. Makers will, therefore, with such a pressure of business as the year is yet likely to bring, have numerous difficulties to contend with in order to meet the calls upon them. It is hardly probable that much fresh business will be transacted until makers have succeeded in clearing off some of the most urgent engagements on their books, which will, perhaps, be in about two months' time. It may well be concluded, therefore, that buyers now in the market will have but little chance of placing their orders at present quotations, and that considerably improved prices for all materials, but, perhaps, railway iron more especially, may be safely reckoned on perhaps, railway iron more especially, may be safely reckoned on before the summer is over. On Russian and American account an occasional heavy order is accepted, as from those countries a large demand is pretty certain to be kept up for some time to come, and extensive clearances will from week to week be made from the local ports. In this respect Cardiff and Newport are particularly busy, several thousand tons of rails and accessories being sent down from the works for shipment every week. Viewing the future of the iron tends in all its neverts any other conclusion can searcely be arrived. trade in all its aspects, any other conclusion can scarcely be arrived at than that a long period of prosperity may be looked forward to. From all the mining and iron-making districts emigration is continually going on, and it must be clear to all that from time to time, as the crowds of people who leave the country spread over the world, forming new colonies and augmenting those already formed, new railways will be constructed, and hence new sources of demand for "without money and without price."

June 9.—Pig-Iron quiet in the forenoon, with limited business at about 61s, prompt cash. In the afternoon there was more pressure although but little is being done at present on Indian account, there

is yet no doubt a considerable amount of business to be done in that quarter. There is no change to note in the home demand, and makers evince but little anxiety respecting this department. In the Tin-plate Trade business continues to letrably active, but makers still find current quotations unremunerative, owing to the high price of tin.

What little change has taken place in the Steam Coal Trade since last week has been favourable. At the local ports, owing to the more regular arrival of ships, coal shipments have been more active, and, consequently, proprietors have been able to keep their pits more regularly and fully employed, so that complaints in that direction have been lessened. The enquiry from all the principal foreign markets is tolerably good, and had it not been for the late irregularity in shipping, there would not be much to complain of as regards the position of the trade; still the advance in prices, consequent upon the rise in wages, has, no doubt, induced buyers to purchase more sparingly than otherwise they might have done. In the House Coal Trade there is a degree of quietude evinced which, taking into consideration the unusually dry and hot season, does not cause much surprise.

At the Dowlais Iron Company's Works a series of experiments are being tried, with a view to produce a better fusion of steel ingots by the application of gas flame. Hitherto the ingots that could not be worked by the Bessemer process were sent as waste to the Sheffield cutlers, and should the experiment be successful, a great saving of material will be effected.

The directors of the Midland Company have paid what may be

cutlers, and should the experiment be successful, a great saving of material will be effected.

The directors of the Midland Company have paid what may be termed a flying visit to South Wales during the last few days. They have visited Swansea, Newport, and other places, and made a minute inspection of the works now in progress at the Alexandra Docks, Newport. It is believed that the object of their visit is to extend the connections of the Milland with the inconstron and coal districts of South Wales, and there is no doubt that their advention that competition to carry South Wales faffic will be halled with sale districts by the public generally. The Midland has always been characterised or into the competition than to carry south Wales traffic will be halled with sattle the spirited management, and to ensure the development of such a wast mineral district as South Wales it is highly necessary that some greater enterprise should be shown by the railway companies having the control of the district than is now the case.

be shown by the railway companies having the control of the district than is now the case.

It is satisfactory to find that the prosperity which has began to be felt in the iron trade has had a favourable effect upon the shares of the iron companies. The Kbbw Vale Company's shares, which for a long time had been much depressed. In the market, have gone up some 31, within the last fortnight, and they are now 20½ to 21. Notice has been given of the closing of the transfer books of the company prior to the annual meeting, when it is expected that an increasing dividend will be declared.

At the Pontypridd Police Court, on Wednesday, two colliers, named bandel Davies and William Jones, who were employed in the Dunraven Colliery, were summoned before the magistrates for having their lamps open in the colliery, contrary to the rules. The defendants had opened their lamps with a key they had in belt possession and re-lighted them. Jones was find 5s, and costs.

SOUTH WALES COAL.—During the discussion in the House of Commons on the Navy Estimates, and to which reference was made in last week's Journal, Sir John Hay said—There was a colliery in Wales, called the Hirwain Colliery, the coal of which might be applied to certain uses, but was of a dangerous and inferior character, and was condemned by the proper officers as unfit to be used in the navy from the probability that ships carrying it would be set on fire. Nevertheless, 18,000 tons of that coal were received at Sheerness, having been purchased at a lowish rate. Coals for the Admiralty were no longer bought by tender, but by a friend of the servetary of the Admiralty, a Mr. M'Culloch, who, it was understood, received 3d, a ton from the Admiralty for every ton of coals received by them—what he might receive at the other end, of course, nobody knew. There was a gentleman of the same name as Mr. M'Culloch who was the manager of the Hirwain Colliery; he did not know whether they were related in any way, but Hirwain coal was certainly bought by Mr. M'Culloch. Some of the coal so purchased was placed on board the Megora, and when on the line she caught fire, and might have been lost owing to the fuel she carried. A return had been moved for upon the subject, but the right hon, gentleman proposed to give a much larger return than was asked for, and it had not yet been produced. Mr. Baxter, after completely refuting two of the charges brought against the purchase department—which Sir J. Hay afterwards admitted were based upon "report"—said:—He came to the third charge, which was that they had been guilty of using Hirwain coal. This was a hard anthracite coal of South Wales, and ought to be used on the third charge, which was that they had been mixing with bituminous coal. In one or two instances it was naturally complained of by the officers of the dockyards. A gentleman connected with the purchase department, whom he never saw or heard of until he became secretary to the Admiralty, was sent down to show the officers how SOUTH WALES COAL .- During the discussion in the House of Com

COLLIERY DISPUTE—WHO IS RIGHT?—Mr. Thomas Gidlow, the proprietor of collieries at Hindley, appeared at the Wigan Police Court, on Saturday, on an information laid by Wm. Hargreaves, charging him with having at Hindley, between January, 1867, and December, 1869, stolen and severed with intent to steal certain coal, the property of the complainant, in the Arley Coal Mine.—Mr. Lere-che appeared for the prosecution, and Mr. Torr for the defence.—The plaintif lives at Darley Hall, Bolton, and owns a couple of small estates at Hindley. The defendant, who is a coal proprietor, lives at Heaton. The case set up was to the effect that the defendant, being the lessor of the coal under certain lands in Hindley, had, without any arrangement or contract with the prosecutor, deliberately worked through coal belonging to the latter, astripabout 109 yards in width, in order to obtain access to an extensive coal field on the other side. The cross-examination of Mr. Hargreaves disclosed the case for the defence. It was that some time before the alleged felony a verbal agreement had been come to between Mr. Gidlow and Mr. Gidlow's nephew on the one part, and Mr. Hargreaves on the other, that defendant was to become the lessor of the coal in question on the same terms as were demanded for the coal under an adjectne state, which was the property of a relative of the prosecutor. That any such arrangement had been made, or that several most important conversations had taken place between Mr. Hargreaves and Charles Gidlow Jackson, defendant anchew and manager, was as positively deuted on the one side as it was affirmed on the other.—The magistrates, after deliberating an hour, said they had come to the conclusion the case was not one to send to a jury.

SECOND-HAND ENGINES—IMPORTANT LEGAL DECISION.—In the Court of Chancery, on Wednesday, the Lord Chancellor and Lord Justice Giffard gave an important decision in an appeal from the Vice-Warden in the case of the Great Wheal Busy winding-up. In December, 1868, Mr. Matthew Loam, manager of the West Chiverton Mining Company, arranged with the official liquidator of the Great Wheal Busy to purchase a steam-engine and stamps, and he affixed his signature to the following acceptance:—"I accept 80-10. ateam-engine and stamps, now lying at the Great Wheal Busy and the Hayle Foundry, according to apecification, exclusive of two boilers, for the sum of 825L, and promise to pay 200L in eash, and the balance in equal instalments, at three and six months." The engine seemed to be in parts; some parts had been got rid of, and were not now forthcoming; other parts were at Hayle Foundry, ready to be delivered according to specification; other parts were not even made, but West Chiverton claimed a perfect engine. On the other side, it was contended that the functions of the official liquidator were to convert into money all the available assets of the official liquidator were to convert into money all the available assets of the official liquidator were to convert into money all the available assets of the company; he could not, consequently, supply what did not exist. The Lord Chancellor was inclined to think that the purchase was not intended to be limited, but that it included a perfect engine. What was described in the specification the appellants ought to have. Lord Justice Giffard concurred, and the order of the Stannaries Court was consequently discharged. SECOND-HAND ENGINES-IMPORTANT LEGAL DECISION.-In the

MINING MAPS.—We invite the attention of our readers to several seful maps advertised in our present Journal.

WIRE TRAMWAY, BRIGHTON.

NOTICE IS HEBEBY GIVEN, that the FIVE MILE EXHIBITION LINE of HODGSON'S SYSTEM of WIRE ROPE TRANSFORM, on the Brighton Downs at Kemp Town, will be WORKED from One to Cour on SATURDAY and MONDAY AFTERNOONS till the end of September, our on SATURDAY and MUSICAL.

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SAWING, PLANING, DRESSING, AND ROCK-BORING MACHINES FOR SLATE.
WATER BALANCES, WATER WHEELS, WINDING AND PUMPING MA-

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VALUABLE CORNISH MINING MACHINERY.

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MESSRS. J. C. LANYON AND SON have FOR SALE a very superior lot of the above, including—
60, 60, 50, 90, and 24 inch PUMPING ENGINES;
24 inch ROTARY ENGINE, with CAPSTAN;
22 inch ditto, with CAPSTAN and CRUSHER;
Several good BOILERS;
Large assortment of PITWORK of all sizes; STRAPPING PLATES, rolled and faggoted, all of which are secondhand, in good condition, and will be sold and faggoted, all of which are secondhand, in good condition, and will be sold and faggoted. and laggored, all of which are secondnand, in good condition, an of very reasonable terms.

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PUMPING ENGINES, of various sizes,—viz., 80 in., 70 in., 60 in., 50 in., 40 in., 30 in. winding engines, Stamping engines, Stam capstans, and CRUSHERS of various sizes.

A NUMBER OF BOILERS. A NUMBER of all descriptions, and all kinds of MATERIALS required for MINING PURPOSES. TO BE SOLD, AT MODERATE PRICES.

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FOR SALE, BY PRIVATE CONTRACT, the following, viz.:—

40 in. cylinder PUMPING ENGINE.
25 in. cylinder WHIM ENGINE, with CRUSHER attached.
60 fms. 11 and 12 in. PUMPS in shaft.
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Timber, and various useful mining materials.

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HARRIS, Public Accountant, 2, Gandy-street, Exeter.

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EIGHT STEAM ENGINES,
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MANUFACTURERS of PUMPING and OTHER ENGINES and GENERAL
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ONE 36 in. PUMPING ENGINE, secondhand.
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ONE 8 in. HORIZONTAL HIGH-PRESSURE ENGINE, new.
Second Cornish BOLLERS.

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FOR SALE, cheap, several FIRST-CLASS NEW PORTABLE STEAM ENGINES, with all recent improvements, and guaranteed; shorse power, 12-horse power, ready for delivery. Superior PIT WINDING GEAR supplied at a short notice, suitable for Portable Engines. REALM, an excellent SECONDHAND PORTABLE STEAM ENGINE, NEW MORTAR MILL.

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THREE Corulsh BOILERS, from 10 to 12 tons each, in excellent condition.
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A 60 feet WATER WHEEL, with hammered iron round shaft, cast-iron perfects these.

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Tavistock, June 9th, 1870.

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pump work, brass and iron; hammered iron shafts, of all sizes; miners' steel
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R., M., AND Co. have had a LARGE EXPERIENCE in PREPARING MA CHINERY for FOREIGN MINES, as well as selecting competent mechanics to erect the same.

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h the Produce, Number of Shares, Names and Residences of the and Managers of each Mine, together with the Agents' and Engin Names, Pay-days, &c., By J. WILLIAMS, Commission Agent.

London: Published at the MINING JOURNAL Office, 26, Fleet-street, London, price 2*. 6d.; and to be had of all Booksellers.

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The DIVIDENDS paid by LEAD MINES for the year have DOUBLED in AMOUNT in the last ten years, and are likely to continue to increase. Some of AMOUNT in the last ten years, and are likely to continue to increase. Some of the young lead mines will probably become profitable, and rise greatly in value in a short time. Full particulars, with a MAP of the Cardiganshire and Mont gomeryshire districts (including Van, Dyliffe, Plynlimmon, East Darren, South Darren, Lisburne, Cwmystwith, Cefn Brwyno, and other mines), can be obtained price is.) on application to J. H. MURCHISON, Esq., No. 3, Austinfriars, Lon-don, E.C.

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HOW TO MAKE MONEY BY PATENTS:
By CHARLES BARLOW.
London: BARLOW and CLARE, 28, Southampton-buildings, W.C.

Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the CRANE MINING COMPANY.—The Registrar of this Court has appointed MONDAY, the 20th day of June Instant, at Eleven o'clock in the forenoon, at the Registrar's Office at Truro, TO SETTLE the LIST OF CONTRIBUTORIES of the above-named company, now made out and deposited at the said office. FREDERICK MARSHALL, Registrar of the said Court. Dated Registrar's Office, Truro, the 9th day of June, 1870.

In the Court of the Vice-Warden of the Stannaries Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the NORTH DOLCOATH MINING COMPANY.—By direction of His Honor, the Vice-Warden, Notice is hereby given that, on Wednesday, the 22d day of June instant, at Eleven o'clock in the forenoon, at the Registera's Office, at Truro, in the county of Cornwall, this Court will proceed to MAKE a CALL of ONE POUND PER SHARE on all the contributories of the above-named company as present members.

All persons interested therein are entitled to attend personally, or by his solicitor or competent agent, at the time and place aforesaid, to offer objections to such call.

Dated Registrar's Office, Truro, June 8, 1870.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

Stannaries of Cornwall.

In the MATTER of the COMPANIES ACT, 1862, and of the HALLENBEAGLE AND EAST DOWNS MINING COMPANY.—ALL CREDITORS or CLAIMANTS of the above named company, who have not received notice from the Registrar of the said Court that their claims have been already admitted, are hereby required to COME IN and PROVE their SEVERAL DEBTS or CLAIMS at the Registrar's Office, Truro, on Tuesday, the 21st day of June instant, at Eleven o'clock in the forenon, or in default thereof they will be EXCLUDED from the BENEFIT of any DISTRIBUTION made before such proof. And for the purpose of such proof they are either to attend in person, or by their solicitors or competent agents, or (unless such attendance be required by the Registrar's summons) they are to send affluavits of their several debts or claims to the Registrar of the Court at Truro, such affldavits being sworn either before some Commissioner of the said Court, or before any Court Judge, Justice, or any Commissioner of one of the Superior Courts, lawfully authorised to take and receive affldavits and affirmations.

FREDERICK MARSHALL, Registrar.

Dated Truro, the 8th day of June, 1870.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the PENHALLOW MOOR MINING COMPANY.—ALL CREDITORS or CLAIMANTS of the above-named company who have not received notice from the Registrar of the said Court that their claims have been already admitted are hereby required to COME IN and PROVE their SEVERAL DEBTS or CLAIMS at the Registrar's Office, Truor, on Thursday, the 23d day of June instant, at Eleven o'clock in the forenoon, or in default thereof they will be EXCLUDED from the BENEFIT of any DISTRIBUTION made before such proof. And for the purpose of such proof they are either to attend in person, or by their solicitors or competent agents, or (unless such attendance be required by the registrar's summons) they are to send afflavits of their several debts or claims to the Registrar of the Court at Truro, such affidavits being sworn either before some Commissioner of the said Court, or before any Court Judge, Justice, or any Commissioner of one of the Superior Courts, lawfully authorised to take and receive affidavits and affirmations.

FREDERICK MARSHALL, Registrar.

Dated Registrar's Office, Truro, the Sth day of June, 1870.

VALUABLE MINE AND FISHERY SHARES FOR SALE. TO BE SOLD, BY AUCTION, at the Western Hotel, Penzance, on Thursday, June 30th, 1870, at Three o'clock in the afternoon, in such lots as may then be determined on, and subject to such conditions as will then be produced, the following

MINE AND FISHERY SHARES, viz. :-

MINE AND FISHERY SHARES, VIX.:—
7 (200th) SHARES In BOTALLACK MINE, in the parish of St. Just.
2 (80th) SHARES In BOTALLACK MINE, In the parish of St. Just.
1 (160th) SHARES IN WHEAL OWLES MINE, St. Just.
4 (119th) SHARES IN BOSWEDDEN AND WHEAL CASTLE MINE, St. Just.
2 (512th) SHARES IN WHEAL BASSET MINE, In the parish of Illogan.
14 (896th) SHARES IN WHEAL MARGARET MINE, In the parish of Lelant,
16 (548th) SHARES IN TRELYON CONSOLS MINE, IN the parish of Lelant,
16 (190th) SHARES IN TRELYON CONSOLS MINE, IN the parish of Lelant,
17 (190th) SHARES IN TRELYON CONSOLS MINE, IN the parish of Lelant,
18 (190th) SHARES IN TRELYON CONSOLS MINE, IN the parish of Lelant,
19 (190th) SHARES IN TRELYON CONSOLS MINE, IN the parish of Lelant,
19 (190th) SHARES IN TRELYON CONSOLS MINE, IN the parish of Lelant,
19 (190th) SHARES IN TRELYON CONSOLS MINE, IN TRELYON COMPANY, AT St. Ives.

The above shares form part of the estate of a gentleman recently deceased, nd are offered for sale soiely on that account.
Further particulars may be obtained on application to H. THOMAS, Solicitor, Clarence-street, Penzance.—Dated June 6th, 1879.

PARISH OF ROCHE, CORNWALL SALE OF CHINA-CLAY WORK AND CLAY.

MR. W. F. CONGDON WILL SELL, BY AUCTION, at Dunn's Hotel, in the town of St. Austell, on Monday, the 13th day of June, 1870, at Five o'clock in the afternoon, the WELL-KNOWN CLAY WORK, called OLD LITTLEJOHNS.

Situate in the parish of Roche, with the PITS, PANS, SHED, and other FIT TINGS and APPLIANCES thereon and thereto belonging; also about TWO HUNDRED TONS of PREPARED CLAY, now on the works and ready for shipment.

HUNDRED TONS of PREPARED CLAY, now on the works and ready for shipment.

The above clay work is held for a term of which about 15 years are unexpired, subject to the very low dues of 2s. per ton, without any minimum rent.

The work is now in full operation, a new stope having recently been opened up. The deposit of clay is very extensive, the quality very good, fit either for potting or bleaching purposes, and well known in the market. There is an abundant and never-failing supply of water, and by the crection of a "dry" (for which the work is laid out) a return of from 1200 to 1500 tons per annum may easily be made.

The carriage to Par, via the Burngullow Bailway, is moderate.

For viewing, and for further particulars, apply to Capt. MARTIN RICKARD, St. Austell.

IN THE SEQUESTRATION OF ALEXANDER HALL AND CO., SHIP BUILDERS, ABERDEEN.

PUBLIC SALE (in Lots) of the entire SHIPBUILDING PLANT, TOOLS, and STOCK, including BUILDING SHEDS, BLACKSMITH'S and WORK SHOPS, PATENT SUIP and other erections, with STEAM ENGINES, and all the MACHINERY and TOOLS required for carrying on an extensive business in Wood or Iron Shipbuilding; and a large assortment of valuable STOCK. As also the remainder of the LEASES of the SHIPBUILDING YARDS.

Mr. JOSEPH KELLOW, Quarry Engineer, 2, Park-terrace The whole valued at upwards of £18,000.

THE WHEAL MARY FLORENCE MINE.

In the Court of the Vice-Warden of the Stannaries.

Stannaries of Cornwall.

In the MATTER of the COMPANIES ACT, 1862, and of the ROYALTON MINING COMPANY.—Notice is hereby given, that a PETITION for the WINDING-UP of the above-named company by the Court was, on the 3rd day of June instant, presented to the Vice-Warden of the Stannaries by Thomas Thompson, of No. 12. Old Jewry-chambers, in the City of London, sharedealer, a shareholder of the said combany, and that the said Petition is directed to be heard before the Vice-Warden, at No. 18, Thurloc-guarse, Brompton, in the country of Middlesex, on Monday, the 25th day of June, instant, at Twelve o'clock at noon.

Any contributory or creditor of the company may appear at the hearing and oppose the same, provided he has given at least two clear days' notice to be forthwith forwarded to P. P. Smith, Esq., Secretary of the Vice-Warden, Truro, Every such contributory or creditor of the company may appear at the hearing and forthwith forwarded to P. P. Smith, Esq., Secretary of the Vice-Warden, Truro, Every such contributory or creditor of the same, on payment of the regulated charge per follo.

Affidavits intended to be used at the hearing, in opposition to the putitioner, his solicitor, or his agents.

F. W. SNELL, 1, Gorgo-street, Mansion House, London (Solicitor) to the Petitioner).

HODGE, HOUKIN, AND MARRACK, Truro, Cornwall (Agents for the said Solicitor).

Dated Truro, 7th day of June, 1870.

In the Court of the Vice-Warden of the Stannaries.

Stannaries of Cornwall.

In the MATTER of the COMPANY.—The Registrar of this Court has appointed.

The MEAL MARY FLORENCE Mine of the minimum yearly rent of £20, and i-15th day of minimum yearly rent of £20, and i-15th dues, to merge in the rent of £21 and i-15th dues, to merge in the rent of £20, and i-15th dues, to merge in the rent of £20, and i-15th dues, to merge in the rent of £20, and i-15th dues, to merge in the rent of £20, and i-15th dues, to merge in the rent of £20, and i-15th dues, to merge in the rent of £2

VALUABLE LEAD MINE FOR SALE.

VALUABLE LEAD MINE FOR SALE.

TO BE SOLD, BY PRIVATE OFFER, all that valuable LEAD MINE, called "OLD CARRS," or "CARRS WEST OF NENT," situated in the midst of, and surrounded by, the rich and prolific mines of the London Lead Coupany, at NENTHEAD.

The mine is held under lease of the Lords Commissioners of the Admiralty, and is renewable on its termination. The west check of the vein has been wrought from time immemorial, and has been very productive, ore having been raised as low as 7. per bing. The east check of the vein is thrown down, and remains entirely unexplored. Some of the small shareholders are unwilling to embark in the undertaking of exploring it, which necessitates a sale.

Further particulars may be known on application to Mr. JOSEPH BLACKLOCK, Nenthead, the agent; Mr WILLIAM HALL, Coal Mcrchant. Alston; or Mr. SHAW YOAMAN, Garrigil, any of whom will receive offers in writing until the lat day of July next ensuing.—Nenthead, 1st June, 1870.

TO BE SOLD, BY PRIVATE CONTRACT, with IMMEDIATE POSSESSION, all those works known as the CASTLEFORD IRON WORKS,

CASTLEFORD IRON WORKS,

Situate at CASTLEFORD, near LEEDS, comprising:—
A SMELTING FURNACE; a BLOWING ENGINE, of 25 horse power, with
BOILERS, &c., in perfect repair, with patent flues and hot air stove.
Also, TWENTY COKE OVENS, the heat from which is conducted to the
boiler; also a water lift, weighing machine, smiths' shop, offices, &c., and about
four acres of frechold land, in which exist excellent beds of clay and sand.
The North-Eastern Railway, which adjoins on one side, and the Aire and
Cadder Navigation, which adjoins on the other side of the works, afford every
facility for receiving material, and sending away the manufactured produce.
A small foundry is attached to the works, which may be purchased at the
same time.
A norther of the results of the re

A portion of the purchase money may, if required, remain on security of the premises.

If NOT SOLD, the WORKS WILL BE LET.

For further particulars, apply to Mr. George Graham, C.E., Low Beechburn
Collery, near Darlington; or to Messrs. North and Sons, Solicitors, Leeds.

VALUABLE MINING ESTATE.

VALUABLE MINING ESTATE.

TO BE SOLD, BY PRIVATE CONTRACT, a FREEHOLD ESTATE, near MOLD; and also a LEASE of the VALUABLE COAL and FREER MINES lying thereunder.

The coal has been proved, and a ratiway is laid down from the pit's mouth into the Mold branch of the Chester and Holyhead Railway.

The plant comprises powerful stationary engines, locomotive, &c. For further particulars, and to treat, apply to Messrs. Tyndall, Johnson, and Tyndall, Solicitors, Birmingham.

TO BE SOLD, ALL THAT VALUABLE AND EXTENSIVE COLLIERY, WORKS, AND PREMISES, with FREEHOLD LAND and MINES adjoining, situate at FOLESHILL, in the county of WARWICK, and known as THE VICTORIA COLLIERY.

MINES adjoining, situate at FOLESHILL, in the county of WARWICK, and known as THE VICTORIA COLLIERY,

Either as a going concern or for breaking up after the coal and minerals lying near and around the shafts are gotten, the coal lying in the deep having been stopped working by a fire, now believed to be extinguished.

The COLLIERY and WORKS comprise OFFICES; TWO SHAFTS, each 240 yards deep; TWO WINDING ENGINES, one of 40-horse power, high pressure—the other 35-horse power, condensing a PUMPING ENGINE, of 10-horse power, high pressure, to feed the boilers; ONE SAW MILL ENGINE, of 10-horse power, high pressure, to Feed the boilers; ONE SAW MILL ENGINE, of 10-horse power, high pressure for pumping water up the incline, together with suitable and excellent BOLLERS, water tanks, weighing machines, cages, and extensive tramways and affixed rails, the whole being in good repair, and extensive tramways and affixed rails, the whole being in good repair, and extensive tramways and affixed rails, the whole being in good repair, and extensive tramways and affixed rails, the whole being in good repair, and extensive tramways and affixed rails, the whole being adjoining, about 26 acress thereof, including the site of the colliery works, being beld for a term of 100 years, from the 29th September, 1834, subject to the payment of the sum of £15 &s. at Michaelmas next, and £39 &s. dd. for one year following, and afterwards at a pepper-corn ront, and to £3 por acre for surface and damaged land—the present surface-rent for colliery works being £18 12s. a year.

Nearly the whole of the valuable white and other ironstone is entire, and can be worked in connection with the ungotten coal with facility and advantage, it being partly opened.

There in a branch railway from the colliery to the Nuncaton Branch of the

be worked in connection with the ungotten coal with facility and advantage, it being partly opened.

There in a branch rallway from the colliery to the Nuncaton Branch of the London and North-Western Rallway, subject to the payment of a yearly rent of £50 to the rallway company for the term of 21 years from 1854, and the cost of maintaining and repairing it. It is worked jointly with the Wyken Colliery. Valuable adjoining mines could be worked from the present shafts, and with the existing machinery.

For further particulars and permission to view, apply to Mr. J. T. WOOD-HOUSE, Mining Engineer, Derby; or Messrs. TROUGHTON, LEA, and KIRBY, Solicitors, Coventry.

COAL FIELD TO LET.

TO BE LET, for Nineteen Years, with entry at Lammas next, the COAL FIELD OF CLUNY, in the parishes of KINGLASSIE and AUCHTERDERRAN, and county of FIFE, with the COLLIERS' HOUSES, all as lately possessed by Messrs, LANDALE and BOYD, with a trifling alteration in the marchies, and with the exception of some of the houses formerly occupied in connection with the collery.

The coal field has been fitted up with MACHINERY and PLANT of an excellent description, and suitable for the field, and a tenant may take the machinery and plant at valuation, or pay interest on the value thereof, as may be arranged. The coal in the adjoining lands has been wrought for many years, and proved to be of excellent quality, and that now to be let is expected to be equality good. If desired, a FIELD of LAND can be LET along with the coal field. For further information, application may be made to Messrs. Dundas and Wilson, C.S., 16, St. Andrew-square, Edinburgh; Messrs, J. and G. H. GEDDES, 9, Melville-crescent, Edinburgh; or to Mr. J. L. GOW, Raith, Kirkaldy, who will give directions for showing the boundaries, and offers will be received up till 30th June next.

FOR SALE, BY PRIVATE CONTRACT, part of a most VALUABLE SLATE AND SLAB PROPERTY, held on lease for a term of 40 years, from March, 1863, at 1-16th royalty.

The property advertised is a counterpart of a slate and slab range now in work, the merits of which will bear the fullest investigation.

Both the slab and slate veins are unusually thick, and require, comparatively, but small englist to return large profits.

Mr. JOSEPH KELLOW, Quarry Engineer, 2, Park-terrace Port Madoc, North Wales.

The whole valued at upwards of £18,000.

No. 18. ROBERT M'TEAR (of Glasgow) has received instructions from James Milne, Esq., Trustee on Messrs. A. Hall and Co.'s Estate, to SELL the above, BY AUCTION, on the premises, in Aberdeen, on Tuesday, 14th June, and following days, come mencing at Twelve o'clock each day.

Catalogues may be had on application to Mes srs. Milne and Walker, Advocates, Aberdeen; the Trustee, James Milne, Esq., Merchant, Aberdeen; or the Auctioneer, St. Mary's Hall, Glasgow.

Particular attention is requested to this important and extensive sale, as the Plant, Tools, Stock, and Materials are of a superior description.

Port Madoc, North Wales.

POR SALE, BY PRIVATE CONTRACT, at WREXHAM DENBIGHISHIRE, TWO large T BOBS and TWO ROCKERS, with fittings complete; about 156 yards of 19 inch PUMPS, faced; several 18 inch CLACK PIECES, working barrels, buckets, and concates, Aberdeen; the Trustee, James Milne, Esq., Merchant, Aberdeen; or the ROD PLATES, BOLTS, &c.; a 23 inch PLUNGER POLE and CASE, and a Plant, Tools, Stock, and Materials are of a superior description.

Aberdeen, 14th May, 1870.

Mr. WILLIAM WILSON, Manager.

NICKEL.

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TORELL.

OR SALE, on account of advanced age and continued ill-health of the present proprietor, A RAW NICKEL ESTABLISH-MENT, in full operation, situate in SOUTH GERMANY, with SULPHURET of IRON and NICKEL and FLUOR SPAR QUARRIES belonging to it. The whole is almost new, being erected only a few years ago.

This most productive work commands a considerable water-power in a region abounding in wood, is situate near a railway station, and produces very rich nickelstone (about 60 per cent. N., 24 per cent. Cu. O, 25 per cent. Fr.) from its own ores, which latter are clear of arsenic. The works may also, at a trifling expense, be extended to the production of nickel-copper, clear of sulphur.

Cheap labour, regular working, low taxes, and a moderate price are the great inducements.

For all further particulars, address "D. H., 418," care of Messrs. Haasenstein and Vogler's Advertising Agency, Zurich (Switzerland),

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RAILWAY WAGON WORKS, BARNSLEY.

MESSES. G. W. AND T. CRAIR

SUPPLY COAL AND COKE WAGONS OF EVERY DESCRIPTION.

Bither for cash, or by deferred payments through wagon-leasing companies WAGONS PROMPTLY REPAIRED.

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MANUFACTURERS of RAILWAY WAGGONS, WHEELS and AXLES,
CARTS, LORRIES, WOOD WHEELS, PATENT WROUGHT IRON WHEELS
and AXLES, BARROWS, PUMPS, DOUBLE PURCHASE CRABS, &c., &c. IRON WORKS-BEVERLEY, YORKSHIRE, Catalogues free by post.

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FOR STEAM AND OTHER ENGINES, Effecting a SAVING of FIFTEEN PER CENT. IN FUEL, with TEN PER CENT. ADDITIONAL POWER.

MESSES. WILLIAMS AND BOLTON, ST. HELEN'S FOUNDRY,
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IS SUPERIOR TO ANY OTHER PAINT IS BODY AND BRILLIANCY OF COLOUR, AND, UNLIKE LEAD PIGMENTS.

IS INNOCUOUS TO THE WORKMEN USING IT. Prices may be obtained on application to the agents, H. J. WALDUCK AND CO.

No. 1, MARKET STREET, MANCHESTER. JAMES BUTTERWORTH,

MAKER OF ALL THE VARIOUS SIZES (VERTICAL AND HORIZONTAL HIGH-PRESSURE STEAM ENGINES.

VERTICAL ENGINES, from 2 to 10-horse power, HORIZONTAL ENGINES, from 3 to 40-horse power, FORTY STEAM ENGINES, from 2 to 20-horse power, In stock to select from, prices low, and ready for immediate delivery.

COLLIERY WINDING ENGINES Made on an improved principle, up to 40 horse power.

STEAM DONKEY PUMPING ENGINES, from 2 in. up to 12 in., rams properly tested in actual work before delivery.

All made in a good, strong, substantial, workman-like manner, of the best material, and warranted to work well.

Plans, specifications, and estimates furnished upon application at the ALBERT STREET ENGINE WORKS, MANCHESTER.

IMPROVED APPLICATION OF WATER POWER. THE TURBINE.

MAC ADAM BROTHERS AND CO., ENGINEERS, SOHO
FOUNDRY, BELFAST, after twenty years of experience, have brought
heir IMPROVED TURBINE to great perfection.
It is applicable to all practicable heights of fall, giving much greaterpower
rom the water than any other kind of water-wheel.
On low falls it has the great advantage of not being impeded by floods or
backwater.

backwater.

It is particularly well adapted for situations where the quantity of water is variable, and where all other wheels fail.

Its motion is extremely regular, and, when desired, a governor can be applied effectively.

This wheel is at work in a great many places, to which reference will be given.

MARTYN AND CO.'S SELF-ACTING BUDDLE

LICENSES GRANTED by R. MARTYN, CLINTON VILLA, REDRUTH, CORNWALL.

PISTONS, AND AIR-PUMP BUCKETS,

"PATENT ELASTIC METALLIC PACKING,"

Of which above FIVE THOUSAND have been made by MESSRS, MATHER AND PLATT,

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THE PATENT SELF-ACTING MINERAL DRESSING MACHINE COMPANY (LIMITED).

THE PATENT JIGGING MACHINE COMPANY.

T. CURRIE GREGORY, MINING ENGINEER. OFFICES,-62, ST. VINCENT STREET, GLASGOW.

These companies possess the patents for the most approved machinery for all the processes of dressing ores, whereby a very great saving in cost is effected. The machinery is in successful operation at several mines in the kingdom, and is in increasing demand.

Mr. GREGORY, in connection with skilled engineers in various mining districts, has paid for the last two years special attention to this important department of mining, and it is only now, the process being in successful operation, that the attention of the public is called thereto.

Mr. GREGORY will be pleased to answer all enquiries, and give orders for inspection. He is prepared to give designs and estimates for the supply of machinery, and for the laying out of floors.

PATENT SELF-REGISTRATION COLLIERY WINDING INDICATOR.

THIS INDICATOR, in addition to its ordinary use, INDICATES and REGISTERS the NUMBER of WINDINGS, thus enabling the Manager to check at a glance the returns of the Banksman or Cierk.

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MANUFACTURERS of RAILWAY CARRIAGES and WAGONS, and EVERY
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Passenger carriages and wagons built, either for cash or for payment,
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EDMUND FOWLER, Sec.
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Steam Pumping, Winding, and every other Description of Engine,

PITWORK, BOILERS, FORGINGS, WATER WHEELS, CRUSHING AND DRESSING MACHINERY, AND MINING TOOLS OF ALL KINDS. Machinery in course of Construction, Second-Hand and Work always on hand.

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STATIONERY ENGINES,

From 1 to 30-horse power. No building required.

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10 cwts. to 15 tons. With or without jib.

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CONTRACTORS' LOCOMOTIVES, 6 to 27-horse power. For steep inclines and curves SHIPS' ENGINES, Hoisting, cooking, and distilling. Passed for half-water.

MARINE ENGINES AND BOILERS, For light screw and paddle steamers, ships,

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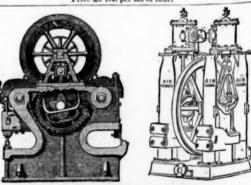
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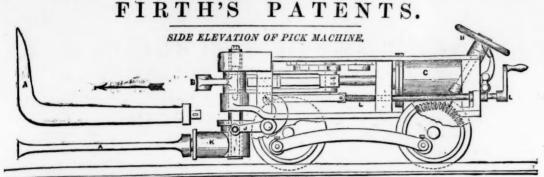


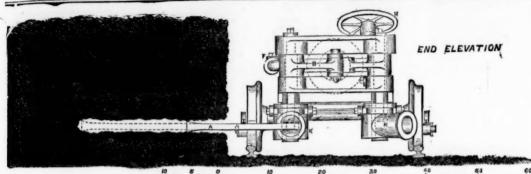
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MAKER OF STEAM PUMPS, PORTABLE ENGINES, PLATE BENDING ROLLERS, BAR AND ANGLE IRON SHEARS, PUNCHING AND SHEARING MACHINES, PATENTEE OF THE DOUBLE CAM LEVER PUNCHING MACHINE, BAR SHEARS, AND RAIL PUNCHING MACHINES,

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COMPRESSED AIR COAL-CUTTING MACHINERY.





These Machines are now working with the most perfect success,

They are portable, easily managed, and not more liable to get out of order than other ordinary machinery.

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For terms of use, and for admission to see the machines at work, apply to-

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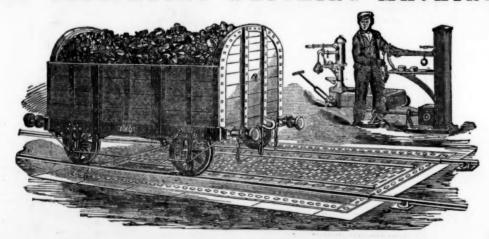
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WEIGHBRIDGES, for Roads and Railways,

Of any power and dimensions, and to the standards of all nations: ALSO PATENTEES AND MANUFACTURERS OF

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Works: Irwell Street, Salford, Manchester. Show Rooms: 11, New Bailey Street, Salford Manchester.



BICKFORD'S PATENT
FOR CONVEYING
CHARGE IN

BLASTING ROCKS,&c.
Obtained tae PRIZE MEDALS at the "ROYAL EXHIBITION" of 185;; at the "INTERNATIONAL EXHIBITION" of 1862, in London; at the "IM-TERNATIONAL EXHIBITION" in Dablin. 1865; at the "UNIVERSAL EXPOSITION" in Parls, in 1867; and at the "GREAT INDUSTRIAL EXHIBITION," at Altona, in 1869.

BICK FORD, SMITH, AND CO., of TUCKINGMILL, CORNWALL, MANUFACTURERS of PATENT SAFETY-FUSE, having been introduced that the name of their firm has been attached to fuse not of their manufacture, beg to call the attention of the trade and public to the following announcement:—
TWO SEPARATE THIREADS PASSING THROUGH the COLUMN of POWDER, and BICKFORD, SMITH, AND CO. CLAIM SUCH TWO SEATE THREADS AS THEIR TRADE MARK.

Honourable Mention,
For Safety, Economy,

Exhibition, 1862. and Utility.

IMPORTANT TO COAL OWNERS.

G. COPELAND, JUN., MANUFACTURER OF THE IMPROVED

PATENT SAFETY BLASTING CARTRIDGE.

Specially made for COAL PITS where FIRE DAMP is prevalent, that NO ACCIDENT shall occur from BLASTING. These cartridges are manufactured in different forms adapted for all kinds of blasting operations, and for tropical climates.

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THE CORNWALL BLASTING POWDER COMPANY ST. ALLEN MILLS, TRURO,

Beg to call attention to their WARRANTED WATERPROOF SAFETY BLASTING CARTRIDGES, adapted for SUBMARINE BLASTING and USE IN WET GROUND GENERALLY.
Prices and samples on application.

JOHN AND EDWIN WRIGHT PATENTEES.

(ESTABLISHED 1770.)

MANUFACTURES OF EVERY DESCRIPTION OF

IMPROVED

PATENT FLAT AND ROUND WIRE ROPES

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Shares	. Company.	P	aid.				Pric	e.
£1.00	John Abbot and Co. [L.]	€ 75	0	0		10	7	dis.
	Blaenavon Iron and Steel Co. [L.]	7	10	0			-	
	Bolckow, Vaughan, and Co. [L.]	30	0	0		30	35	pm.
	Brown, John, and Co. [L.]	70	0	0		11	10	dis.
10	Consett Iron Co. [L.]	7	10	0		50s.	518.	pm.
100	Cammell and Co. [L.]	80	0	0		13	11	dis.
	Ebbw Vale Co. [L.]	27	10	0		8	716	dis.
	Hopkins, Gilkes, and Co. [L.]	10		0		7/8	1	pm.
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	Palmer's Shipbuilding and Iron Co. [L.]	25		0		par.	1/2	pm.
25		25		0		par.	1/2	pm.
	Parkgate Iron Co. [L.]	65				par.		_
	Patent Shaft and Axletree Co. [L.]	10		0		5	time	pm.
	Rhymney Iron Co. [L.]	50		0		31	33	dis.
15		15		0		9	10	dis.
	Shotts Iron Co	50		0		22	-	dis.
	Sheephridge Iron and Coal Co. [L.]	55		0		16	14	dis.
	Staveley Iron and Coal Co	60	0	0		40	41	pm.
100	Ditto ditto New	10	0	0		8	81/4	pm.
100	Thames Iron Company	100	0	0			-	
	Wigan Coal and Iron Co	100	0	0			0 dis	
75	Ditto ditto	75	0	0	-	1	0 dia	le.

OL -	DELLISH				DEN											
Shan	Mines.	1	ai	a. L	ast Pr		Business		otal	die	8. P	er :	tha	re. Last		
1500	Alderley Edge, c, Cheshire	10		0	_				10	6	8	0	\$	0Jan. 0Apr.	1869	П
6000	Boscaswell, t, c, St. Just	1		0	-				- 0	2	U	0	2 (0Apr.	1870	1
200	Botallack, t. c, St. Just	91		0	280		270 290		575	5	01	10	0 (0 May	1870)
20000	Bronfloyd, I, Cardigan*		10	0	3%		3		3	0	0	0	1 (6 Apr.	1870	,
5094	Bwich Consols, s-1, Cardigan	- 4	0	0	334		8% 3%		0	9	0	0	2 0	May	1870	,
6400	Cashwell, l, Cumberland	2	10	0	-		8 314		0	9	0	0	2 6	Dec.	1869	
916	Cargoll. s-l, Newlyn	18	5	7	5 .		4 5		16	15	0	0	10 (0Aug.	1869	
1280	Chanticleer, I, Flint	0	7	8		• •			0	1	0	0	0	6. Nov.	1868	
2430	Cook's Kitchen, c, Illogant	19	14	9	18		20 22		3	13	0	0	7 4	6Apr.	1870	
1000	Cornwall Hematite*	10	0	0			-0		0	10	0		10 7	0. Feb.		
509	Creegbrawse and Penkevil, t					• •		**	2	5	0	1			1870	
867	Cwm Erfin. l, Cardiganshire	7	10	0		••		••		10	0	0	0 1	0. April	1808	1
128	Cwmystwith, I, Cardiganshire	60	0	0		••		••	387	10	0		0	0Apr.	1870	
280	Derwent Mines, s-l, Durham	300	0	0		••		**	177	10	0	2	0 1	0. July	1869	
1024	Devon Gt. Consols, c. Tavistockt	1		0	115		107 115		1145	0	0.0	2	10	0. July	1868	
	Devon GL. Consols, c. 1 aviscoul	49		0			105 115		1145	0	0		0	0May	1870	
656	Ding Dong, t, Gulvalt		14	6	18 .	٠.	17 19		6	0	0	1	0	0Dec.	1869	
1433	Dolcoath, c, t, Camborne	32		6	135 .	1	321/21371/		238	12	6	3	0	0 Apr.	1870	
12800	Drake Walls, t, Calstock!	2		0	1/2.		138 11/8		1	2	8	0	1 :	3Apr.	1870	П
6144	East Caradon, e, St. Cleert	3		6	434.		41/2 5		14	13	6	0	3 (0 Apr.	1870	1
300	East Pool, t, c, Pool, Illogan	32	0		-				182	10	0	2	0	0 Feb.	1870	П
6400	East Pool, t, c, Pool, Illogan	0	9	9	71/2.		734 814		10	3	3	0	4	0 May	1870	
1906	East Wheal Lovell, t, Wendron	3	9	0	33 .	3	314 3414		10	16	0	2	0 (0 Apr.	1870	
2800		25	0	0									10	0. June		
	Frank Mills, I, Christow	3		6	rivers .		2% 3%		4	5	6	0		6Apr.	1870	
3950	Gawton, c, Tavistock	3		6	-		-/0 -/0		0		0		3 (O. Jan.	1868	
15000	Great Laxey, I, Isle of Man*	4		0		1	81/4 191/4		12		0	0 1	10	0Mar.	1870	
3000	Great Northern Manganese*	5		0			-/4/8			_ ,		8 -		Fob.		
5908	Great Wheal Vor, t, c, Helstont	40			9.9	::	10 11	**	1.5		6	0 1	9	G. Mar.	1970	J
1024	Great wheat vor, t, c, notachings,	8		0	4.0		39 41	••		10	0	0	2 1	o. Mar.	1870	1
12000	Herodsfoot, I, near Liskeardt	î					20 41		0	10	0.0	1	10	0Feb.	1870	4
	Holmbush and Kelly Bray, c			0		••				3	0	0	1 (O. Nov.	1869	1
5000	Ironmasters' Company	10		**		• •	7/ 1		0	9	0	0	9 (Feb.	1870	
10000	Killaloe, st. Tipperary	1	0		78		% 1		0	7	0	6 p	.ct	Mar.	1870	1
165	Levant, c. t. Mt. Just	10		1	-				101	0	0	2	0 (Aug.	1869	1
400	Lisburne, 1, Cardiganshire	18	15	0	-				529	0	0	2	0 0	Jan.	1870	1
3000	Maes-y-Safn, I, Flint*	20	0						- 4	0	0	0	5 6	D. Oct.	1868	1
2000	Marke Valley, c. Caradon	4	10	6	614.		634 7		6	1	0	0	4 (O. Apr.	1870	1
1800	Minera Mining Co. 1, Wrexham .	. 25	0	0					273	8	3	5	0 0	May Jan.	1870	1
20000	Mining Co. of Ireland, e, l, cl	7	0	0	-		7% 7%		0	2	516	0	2 4	Jan.	1870	1
40000	Mwyndy Iron Ore*	3	10	0	11/2.		1 11/2		0	16	6	0	5 (nJan.	1870	1
2000	North Levant, t, c, St. Just	10	12		111/2.		11 111/4		1	5	0	0 1	10 (Mar.	1870	1
200	Parys Mines, c, Anglesey	50	0	0						10	0	9 1		O. Aug.	1868	1
5000	Penhalls, t. St. Agnes	3	0	0			51/4 6		1	5	6	0		Apr.	1870	4
500	Phoenix, t, c, Linkinhorne	50	0				-/-		456		0	7		May	1870	1
2000	Poldico t c Gwennan	10	0		-				0	10	0	ó .	0 0	Mar	1870	1
10000	Poldice, t, c, Gwennap	0	12		7/8	••	3/ 7/		~	10	0	0 1	0 0	May		1
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		4	0	7		• •	1% 1%	••	0		6		10 (O. Mar.	1870	1
5969	Rosewall Hill & Ransom, t	-	v	0	300		270 290			1	6	Ů.		May	1870	1
512	South Caradon, c, St. Chert	1	5	0	000 .		410 200		092	10		5	0 (0Mar.	1870	ì
6000	South Darren, I, Cardigan	3	6	6	-01/		0.0		1	0	0	0	2 6	Nov.	1869	1
937	South Wh. Crofty, c, Illegan	24	10	10	91/2.		8 9	**	. 2	10	0	0 1	0 0	Sept.	1869	1
496	So. Wh. Frances, c, Illog. 12	18	18	9	13 .		16 18		374	13	6			Mar.	1868	1
242	Spearn Moor, t. St. Just	36	17	9			19 20		12	15	0	1	0 0	Feb.	1870	1
940	St. Ives Consols, t, St. Ivest		15	0			834 914		0	10	0	0 1	0 0	May	1869	1
8771	St. Just Amalgamated, 1	3	10	0					0	2	6 (0	2 6	Nov.	1869	1
508	Summer Hill, I, Mold	3	18	6					2	5		0	5 0	Feb.	1868	1
6000	Tincroft, c, t. Pool, Illogant	9	0	0	34 .		34 36		24	8	6	1	7 6	May	1870	1
2000	Tincroft, c, t. Poo!, Illogant Trumpe: Cons., t, Helston	11	10	0	24 .		25 27		10	17	0			Apr.	1870	ı
12000	Van, l, Llanidloes*	4	5	0	80 .		78 80		1	10	0	0 1	0 0	Mar.	1870	1
3000	W. Chiverton, I, Perranzabuloet	10	0	0			55 57		43	7	6 :	9 "	0 0	May	1870	ı
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	Wheat Basset, c. Hogani	10	3	8			714 50		632	10	0		0 0	June		1
	Wheal Jane, s-l, Kea	10	10	0	47 .	. 1	71/6 50		90	10 (1	0 0		1870	1
4295	Wieal Kit y, t, Sr. Agnes	8	4	6	734 .		18 15		4	19 (0 1	0			1870	1
	Wheal Kitty, t, Uny Lelantt	3	10	6	13 .				12	2 (5	0 1	5 0		1870	1
896	Wheal Margaret, t, Uny Lelantt	13	17	6	8		7 9		77	15 ((0 1	0 0		1870	1
1024	Wheal Mary Ann, I, Menheniott	8	0	0	11 .		11 13		70	17 (5 (0 1	0 0	June	1870	1
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396	Wieal Scton, t, c, Camborne	58	10	0	24		22 25		254	15 () !	2	0 0		1869	1
7000	Wicklow, c, i, Wicklow	2	0	0			91/2		50	3 0	6) (5 0.	Sept.	1869	1
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5000	Alamillos, l. Spainet	2	0	0	. 2	11/4 2		0	10 €	5 0	2	0 Mar.	1870
0000	Australian, c, South Australia ! 1	7		6				0	1 6	8 0	0	6 Aug.	1868
5000	Cape Copper Mininget	7	0	0	17	17 18						O. May	
1000	Central American Association **	0	10	0				0	6 (0 0	1	0July	1860
0000	Copiapo Mining Co., Chillit	16	10	0	2	1 2		0	4 0	0	4	0 April	1869
1162	Don Pedro North del Rey **	0	14	0	31/8	81/6 83/6		2	3 1	0	4	0 Mar.	1870
0000	English and Australian, ct	2		0					-	0	0	9 Feb.	1869
000	Fortuna, l, Spain*†	2	0	0	3	234 814		2	0 1	0.0	3	0Mar.	1870
1000	GenMiningAssoc, NovaScotia*	20	0	0	6	4 6		23	10 0	0	15	0June	1867
0000	Genucsa, !, Sardinia	5	0	0				10	per	cent		Aug.	1868
9000	Kapunda Mining Co., Austratt	1	0	0	74	3/4 3/4		0	1 1	0.0	0	6 Nov.	1868
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	Panuicillo, c. Chilist	4	0	0	21/2	21/4 3				cent			rly.
	Pontsiband, s.l. Francet	20		0		16 18		7	1 8	1	15	6 Nov.	1869
000	Port Phillip, g, Clunes* +	1	0	0	3/4	3/4 1						6. Jan.	1870
	Scottish Australian Min. Co.t.	1	0	0				6 1	er c	cut.		Apr.	1870
	St. John del Rey, Brazilet	15		0		21 23						0 Dec.	1867
	Swedish Sulpbur Ore*	2		0								Dec.	1868
	Vancouver Coal Mining * 12	6	0	0	734	71/4 8						0 May	1870
	Victoria (London) [25000 £1 pd.				6d. pd.							7. July	1868
	West Canada Mining Co	1		0						0		6 May	1866
											-		

	NON-DIVIDEND FOREIGN MINI	W C	-	- 1
	Paid. Last !	D		1
are	oo Almada and Tirito Consolidated, s, Mexico*† 0 10 0	Pr. Bus. don	e. Last Ca	и.
000	OO Almada and Tirito Consolidated, s, Mexico + 0 10 0	24 . 1/4 34	Mar. 18	
500	O Anglo-Algerian, c, Algeria		Fully p	
000			Fully p	
000			Jan. 18	
000	00 Angio-Brazilian, g*t 0 11 0	16 76 16	Feb. 18	69
500	00 Anglo-Italian, g*f 1 7 6	11/2 1 1/4 1/4	Jan. 18	68
000		32% 31%	Dec. 18	
000	00 Braganza, q. Brazil	* **	Dec. 18	
000		2 12	Jan. 180	69
000	00 Chontales, g. s, Nicaragua* 5 0 0 1	1/2 1 1/8 1%		
000	00 Cutaba, g, Minas Geraes, Brazil 0 5 0	70	Feb. 18:	70
000	00 Eclipse, g, California 0 10 0		Fully p	
000	00 El Chico Silver Mining and Reduction Company 5 00		Nov. 18	
000			Fully po	
			.Nov. 18	
000	00 General Brazilian* 0 15 0		May 187	
000	0 Guerrero, g, Mexico (total cap.=50,000 shares of £1) 0 10 0		Aug. 180	
100			Fully pe	
000	0 Javali, g, Nicaragua 2 0 0		Jan. 186	
927			Dec. 186	
	o Nerbudda Coal and Iron, India*† 0 66		.Dec. 186	
			Fully po	
000		1	Fully po	1.
000		3% 8% 8%		
		1% % 1%		
	0 Rossa Grande, g, Brazil*† 0 14 0		Jan. 186	
000	0 Sao Vicente, Brazil* 0 60		.Oct. 186	
000	0 St. Josephberg, c, l, Rhenish Prussia* 10 00		.Fully po	
			.Aug. 180	19
	o Tuolumne, g, California 2 0 0			
	4 United Mexican, s, Mexicott* 28 5 2 3	2% 3%	May 186	88
	0 Val Antigoria, g, Italy 1 12 6	* **		_
000	0 Val Sassam, s, c, l, Italy*† 8 00		.Aug. 180	
000	Worthing, c, South Australia 1 00		Fully po	
000	O Yorke Peninsula, South Australia 1 00	16 . 16 76	Fully po	
			Washing and	

				-
-	NON-DIVIDEND M	INES.		
n	Assheton, Is, Carnaryonshire	5 0 0		Fully pd.
	Cae Gynon, I, Cardiganshire +		214 21/4 23/4	Fully pd.
à	Carn Brea, e, t, Illogan;	30 00	17 19	June 1868
ì	Chiverton, I, Perranzabuloe	11 00	2	Mar. 1870
'n	Chiverton Moor, I, Perranzabulos	7 11 0		Feb. 1869
e a	Kast Basset, c. Redrutht1	40 00	8 68	Mar. 1870
e O	East Carn Brea, c, Redruth!	5 11 6		Feb. 1870
ľ	East Grenville, c. Camborne			May 1870
,	Florida, s-l, Cardiganshire*		5	Fully pd.
,	Gorsedd and Celyn Level, l, Flintshire			Fully pd.
ř	Hingston Down, c, Calstockt	6 1 6		Apr. 1870
Š	New Wheal Seton, c, Camborne			Dec. 1869
2	New wheat Selon, c, Camborne	5 12 10		Mar. 1869
	North Downs, c, Redruth		89	Ang. 1869
2	North Roskear, c, Camborne	1 16 4	1/4 3/8 1/4	Aug. 1869
5	North Treskerby, c, St. Agnes			
)	Penrhyn, l, Carnarvonshire*			May 1870
3	Rose and Chiverton United, I, Newlyn		3 3 31/4	Oct. 1869
š	South Condurrow, t, c, Camborne			.Oct. 1869
þ	Stray Park, c, t, Cambornet:	48 18	18181/4 19	Fully pd.
)	Tankerville, I, Salop*	6 00		Fully pd.
ŗ	Tan-yr-Allt, la, Carnarvonshire	3 00		Fully pd.
)	Van Consols, Llanidioes, l*	2 10 0		May 1868
,	West Basset, c, Illogantt	2 13 0		
3	West Caradon, c, St. Cleer ::	2 13 6		Mar. 1870
)	West Stiperstones, I, Salop*	1 00	- **	Fully pd.
ì	Wheal Agar, c, Illogan	8 66	23/4 21/2 23/4	Apr. 1870
3	Wheal Buller c. Redrutht?	34 50	6 79	Apr. 1870

. Companies marked thus * have been incorporated with Limited Limited Limited property; those marked † have been admitted on the Stock Exchange, those marked thus ‡ have paid Dividends.

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